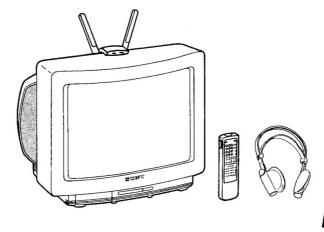
KV-H2511D MDR-IF310/RM-816

SERVICE MANUAL

AEP Model Chassis No. SCC-F07D-A



AE-1C CHASSIS

MODELS OF TH	E SAME SERIES
KV-H2511D	KV-H2513E
KV-H2511A	KV-H2512U
KV-H2510B	

SPECIFICATIONS

[KV-H2511D]

Television system

Color system

PAL, SECAM, NTSC3.58, NTSC4.43

Stereo system

B/G/H

B/G/H

Channel coverage

CABLE TV (1) : S1-S41

GERMAN stereo

CABLE TV (2) : S01-S05, M1-M10, U1-U10

Picture tube

Inputs

Hi-Black Trinitron tube

Approx. 63.5 cm (25 inches)

(Approx. 59 cm picture measured diagonally)

110 ° -degree deflection

Ö-1 21-pin connector:

CENELEC standard including RGB input.

→ 2 21-pin connector: including S video input

Flont: 3 Audio and video input jacks:

phono jack.

Including S Video input Y: 1Vp-p ± 3dB 75ohm C: 0.3Vp-p ± 3dB 75ohm Outputs

21-pin connector: CENELEC standard Headphones jack: stereo minijack

External speaker terminals: 2-pin DIN Audio output jacks: phono jack (output dependent upon TV

settings)

Sound output

Power consumption

104 Wh

Weight incl.speakers

Supplied accessories

Dimensions incl.speakers Approx. 575×510×487 mm (w/h/d)

Approx. 36kg

30 W + 30 W

MDR-IF310 Headphones, IEC designation R6 batteries.

-Continued on next page-



TRINITRON®COLOR TV SONY [RM-816]

Remote control system

infrared control

Power requirements

3V dc

2 batteries IEC designation

R6 (size AA)

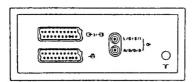
Dimentions

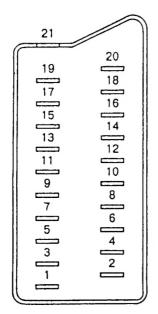
Approx.75 \times 221 \times 23mm (w/h/d)

Weight

Approx.230g (including Batteries)

Design and specifications are subject to change without notice.





Pin No.	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Oulput Impedance: Less Ihan 1kohm*
2	0	0	Audio Input B (right)	Standard level: 0.5Vrms Input Impedance: More than 10kohms*
3	0	0	Audio output A (left)	Standard level: 0.5Vrms Output Impedance: Less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio Input A (left)	Standard level: 0.5Vrms Input Impedance; More than 10kohms*
7	0	•	Blue input	0.7V ± 3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5 - 12V): Part mode Low state (0 - 2V): TV mode Input Impedance: More than 10kohm Input capacitance: Less than 2 nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal: 0.7V ± 3dθ, 75ohms, positive
12	0	0	Open	
13	0	0	Ground (red)	
14	0	0	Ground (branking)	
15	0	-	Red Input	0.7V ± 3dB, 75ohms, positive
,,,	_	0	(S signal) croma input	0.3V ± 3dB, 75ohms, positive
16	0	•	Blanking Input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input Impedance: 75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video Input)	
19	0	0	Video output	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
20	0	-	Video input	$1V \pm 3dB$, 75ohms, positive Sync: 0.3V (-3 , +10dB)
20	-	0	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
21	0	0	Common ground (plug,	=blaid)

4 Pin Connector (⊕)

in No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	$1V \pm 3dB$ 75ohm, positive Sync $0.3V_{+10}^{-3}$ dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive

O connected

unconnected (open)

* at 20Hz - 20kHz

TABLE OF CONTENTS

Sect	tion <u>Title</u> !	Page	Sec	<u>Title</u>	<u>Page</u>
1.	GENERAL		4-3.	D Board Adjustments	20
1-1.	Switching ON/OFF	4	4-4.	J1 Board Adjustments	
1-2.	Presetting		4-5.	V Board Adjustments	
1-3.	Basic TV Operation		4-6.	Secondary Adjustments	
1-4.	Advanced TV Operation	7			
1-5.	Using the Headphones	8	5.	DIAGRAMS	
1-6.	Teletext Operation		5-1.	Block Diagram	23
1-7.	Additional Information	10	5-2.	Circuit Boards Location	
			5-3.	Schemtic Diagrams and Printed Wiring Boards	27
2.	DISASSEMBLY		5-4.	Semiconductors	
2-1.	Rear Cover Removal	12			
2-2.	Chassis Assembly Removal	12	6.	EXPLODED VIEWS	
2-3.	A, A1, J1 Boards and G Bracket Removal	13	6-1.	Chassis	63
2-4.	B and V Boards Removal	13	6-2.	Picture tube	
2-5.	Service Position	13	6-3.	Transmitter	65
2-6.	Picture Tube Removal	14			
			7.	ELECTRICAL PARTS LIST	66
3.	SET-UP ADJUSTMENTS				
3-1.	Beam Landing	15	ACC	ESSORY (MDR-IF310)	
3-2.	Convergence	16	1.	General	
3-3.	Focus	18	2.	Disassembly	
3-4.	White Balance	18	3.	Adjustment	
	4.24.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.		4.	Diagrams	
4.	CIRCUIT ADJUSTMENTS		5.	Exploded View	93
4-1.	A Board Adjustments		6.	Electrical Parts List	94
4-2.	B board Adjustments	19			

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CAUTION

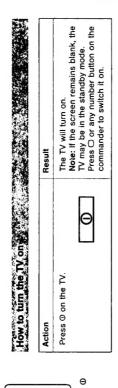
SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

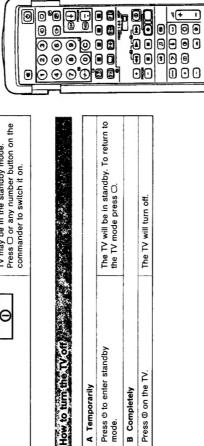
SECTION 1

1-2. PRESETTING GENERAL

1-1. SWITCHING ON/OFF

After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).





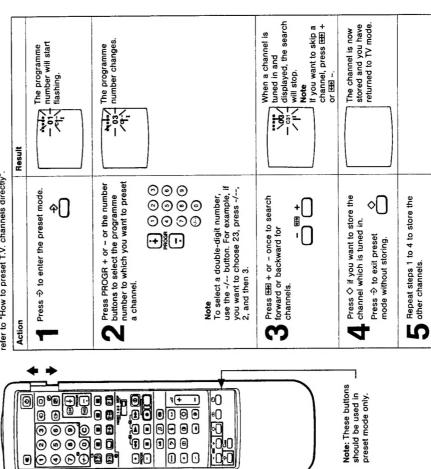
ම

If you are unfamiliar with the channel numbers of the stations you wish to preset, use "How to preset channels automatically". If you are familiar with the channel numbers refer to "How to preset T.V. channels directly". Slide open the full function side of the remote commander to reveal preset buttons. How to preset changes automatically

TV stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers on the TV before you can watch the TV

There are 60 spaces for storing these channels.

After you have installed the TV, you need to preset TV channels.

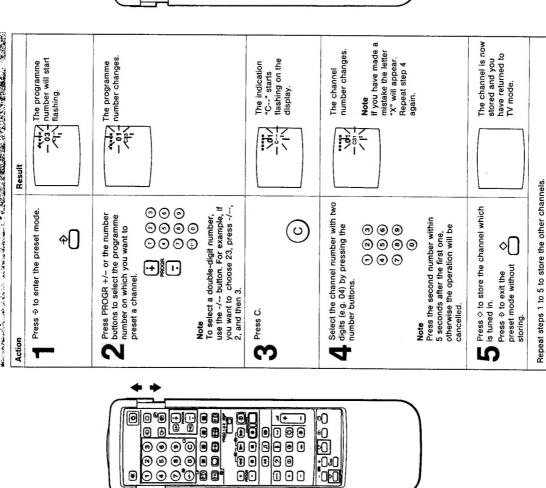


By recording the channel numbers displayed after step 3, the direct channel funing method (page 6) may be used to re-order the programme number sequence to suit your convenience. Note

0

000

How to preset channels directly



How to Name a Station

You can use up to five characters to "name" a channel or station (i.e. BBC1).

Action	ion		Result	
	Select a programme number you want to name by pressing the PROGR +/- or the number buttons.	000 000 000 000 	08	The selected programme number will appear.
N	Press →.		The programmer of 1.	The programme number starts flashing.
(7)	Press C.	°O	The first	The first column of the station name indication will start flashing.
4	Press + or - to select a letter in the alphabet, a number, or a blank space.	letter in the blank	The letters of apprabet, nu can and the span will appear sequentially.	The letters of the alphabet, numbers and the space ("-") will appear sequentially.
T)	Press C.	o()	125°	The first character is now set and the second column will start flashing.
9	Repeat steps 4 and 5 to set each letter.	set each lette	эг.	
	Press ♦.	⋄	The channel is now store you have re to TV mode.	The channel name is now stored and you have returned to TV mode.

How to tune in a channel temporarily

You can tune a channel in temporarily, if it has not been preset.

Action		Result
_	Press C.	The indication "C" appears on the screen.
S	Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4)	The channel is received, but it is not stored to any programme number.

1-3. BASIC TV OPERATION

How to Skip Programmes Using the PROGR +/- buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.

ACTION	r.		Result
_	Press ⇒ to enter the preset mode.	sset mode.	- 08 + number will start
N	Select the programme number that you want to skip by pressing PROGR +/- or the number buttons.	9 9 9 9 9 9 9 9 9 9 9 9	The programme volume control of the
C	Press Coo.	ೈ	The lowest channel number appears are under the programme
4	Press ♦.	⋄ O	The channel is now stored and you have returned to TV mode.

To select a double-digit number, use the -/--- / + 0+P+d - $\widehat{\pm}$ 6

This section introduces you to the basic control functions which are available on the simple side of the remote commander.

Note: Press - on door to open.

How to Select Programmes ***

Before you can select programmes make sure that you have preset channels, refer to page 5.

Result

The selected programme is displayed.

ຊ

 $\bigoplus k \oplus$

000 0000 0000

you want to choose 23,

press -/--, 2, and

button. For example, if

Press PROGR +/- or the number buttons.

Action

Action	Result
Press / + or	The volume markers will appear and are adjusted accordingly.

Basic teletext operation

Select
The ® button to view the teletext.
The C button to request subtities (P.868).
One of the coloured buttons for fastext operation.
The C button to return to TV mode.

For details about teletext operation, refer to page 14.

How to operate with the buttons on the TV

You can also select programmes and adjust the volume using the $P_{-\Delta \Delta^{-+}}$ and $\rightarrow \bullet \bullet \bullet + +/-$ buttons on the front of the TV. For operation, itsis press the $P_{-\Delta}\Delta^{-+}$ © button repeatedly so that the P (for Porgramme) or Δ (for volume) indication appears on the screen, and then adjust with the $\rightarrow \bullet \bullet \bullet +/-$ buttons.

Note: To restore to factory set level press →• ← +/- together.

How to view the video input picture Press -E. To return to the TV mode, press O. For further details, refer to page 18.

How to Fine Tune Manually A The The The Table To The Table The Tab

If the picture is distorted, you can fine tune the channel manually.

Action	Result
Press (亞 + or – repeatedly until the picture looks normal.	The indication ← F → appears on the screen.
Press ⇒ to enter the preset mode.	The programme number starts flashing.
Press ♦.	The fine tuning is stored.

Note: Normal tuning can be restored if you preset the channel once more.

•0 •0 •0 •0

1-4. ADVANCED TV OPERATION

This section shows you how to use convenient features and how to adjust the picture and sound to your taste.

Use the full-function side of the Remote Commander.

How to use on-screen display and special sound features

You can enjoy the following convenient features.

H A-O-B

How to	Action	To resume normal picture/ sound
Display on-screen indications	Press (3	Indications disappear after some seconds
Display programme numbers	Press @twice	Press (twice again.
Mute the sound	Press of.	Press to again.
Select a language in bilingual programmes.	Press A/B. The selected mode of the A-OD-B indicator on the TV lights up.	Press A/B.
Set the sound for music listening	Press Ӆ.	Press ∏ again.
Use the space sound (special acoustic effect)	Press 🕀	Press 🏵 again.
Request the time	Press @.	Press @ again.

How to	Action	To resume normal picture/ sound
Display on-screen indications	Press (3	Indications disappear after some seconds
Display programme numbers	Press @twice	Press (twice again.
Mute the sound	Press of.	Press ook again.
Select a language in bilingual programmes.	Press A/B. The selected mode of the A-☉-B indicator on the TV lights up.	Press A/B.
Set the sound for music listening	Press 7.	Press ∏ again.
Use the space sound (special acoustic effect)	Press 🟵	Press 🥶 again.
Request the time	Press @.	Press @ again.

(e)

Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps below. How to adjust the picture and sound Result: (- ← +) Then: Press:

For picture adjustment

To Adjust:

Picture:

Less ← More Less → More Dark ← Bright

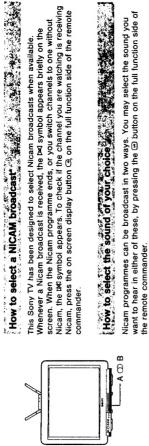
+ 1

Picture Contrast Colour Intensity

Brightness

Sound: Bass Treble Balance

0 • Ф



Service being broadcast	Action	The sound you hear	Indication TV A∆B
Nicam		Stereo/Mono (2-channel)	崇
	Press A/B	Normally broadcast sound	
	Press A/B ag	Press A/B again to return to Stereo/Mono (2-channo	(2-chann
			-
Bitiograf		A accurace t	-[

崇

n on the

<u>e</u>

Bilingual		Language A	崇	
ā	Press A/B	Language B		崇
ā.	Press A/B	Normally broadcast language		
ā	ress A/B ag	Press A/B again to return to language A		

Depending on availability of service.

To reset the picture and sound to factory set levels press ----

8

More Left ← More Right

Less ← More Less --- More

+ 1

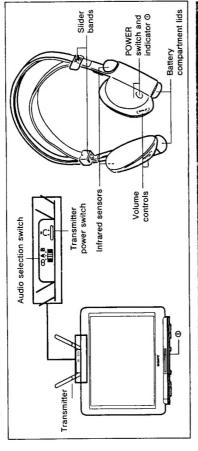
ä

On the set:

Press →· ← +/~ buttons simultaneously

1-5. USING THE HEADPHONES

This cordiess stereo headphones system uses infrared rays allowing you to enjoy the benefits of normal TV viewing with high quality sound, free from the restriction of a headphones cord.



The transmitter will turn on and the infrared emitter lights will glow. Press Ω again to switch off. The audio signal is now being transmitted Note: For best reception, rotate the transmitter lens to face the listening position. Carefully raise both the transmitters so that they are sufficiently visible. Switch on the TV and press ? on the How to turn on the Transmitter transmitter. Action

How/toktum on the Headphoires The headphones will turn on and the indicator light will glow. Press © again to switch off. 、 ド 日 Press @ on the headphones.

Note: The headphones will automatically turn themselves off after approximately 3 hours. To continue use, turn on the power switch again.

Fut on the headphones and, if necessary, adjust the slider bands for comfort. Select the required viewing channel using the Remote Commander. Adjust the volume controls, on the headphones, R/D/D/D so that the volume levels of both channels are the same.	Put on th	Select th	Adjust the so that the the same.
the slider bands for comformander. R/D/D/D	e headphones and, if necessary, adjust	e required viewing channel using the Re	Adjust the volume controls, on the headphones, so that the volume levels of both channels are the same.
	the slider bands for comfo	emote Commander.	R/D/D/D

Note: Be sure not to cover the infrared sensors with your hands or hair, or expose the headphones to direct

Using the transmitter audio switch.

By adjusting the audio switch on the transmitter you can select the sound of your choice. The A-OD-B indicators on the TV set will identify which service is being broadcast.

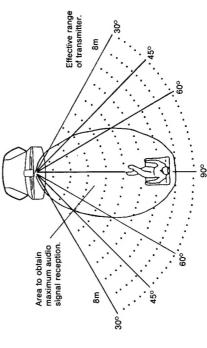
_			
osinon	В	Right channel	pun
ransmitter audio switch position	A	Left channel	Normally broadcast sound
13	8	Stereo/Mono (2-channel)	
on the	_	浜	
Indication on the	TV A-CO-B	洪	
Service being	broadcast	Nicam	

Language B	age
Language A	Normally broadcast language
Language A+B	Nov
口洪	. []
洪 🛮	
Bilingual	

Depending on availability of service.

Covertage of this infrared trays

The infrared rays will not penetrate walls or opaque glass, therefore, the headphones must be used within the 'in sight' area of the transmitter.



Be sure to remain within the effective range of the infrared rays while viewing the TV. However, should you use the headphones at too great a distance, from the transmitter, the audio signal will become weak and you may experience a hissing noise.

Note: These phenomena are inherent to infrared-ray communication and do not mean that there is a problem with the unit itself.

General transmitter information

Carrier frequency: Right 2.8 MHz Left 2.3 MHz Left 2.3 MHz Effective range: Up to 8m approx. Distortion: Less than 1% at 1 KHz
--

1-6. TELETEXT OPERATION

TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the full side of the Remote Commander.

With the simple side of the Remote Commander, only the basic operation is possible.

Action

Select the channel which carries the teletext service you wish to see.

Press ©.

In the teletext service you wish to see.

In the teletext signal is not broadcast, then is not broadcast, then is not the number buttons.

In you make a mistake, type in any three digits, then re-enter the correct page number.

Correct page number.

To return to the TV mode.
Press ○.

To change the teletext channels
First press ○ to return to the TV mode, then repeat steps 1 to 3.

Note If the signal of the TV channel is weak, teletext errors may often occur

How to	Action	Result
Superimpose the teletext display on the TV programme.	Press ® once if you are in text mode, or press ® twice if in TV mode.	displays are superimposed on
	To return to the normal teletext display press @ again.	## TV programmes.
Prevent a teletext page from being updated or changed.	Press @ (HOLD).	The HOLD symbol (3) appears on
	To resume normal teletext reception, press (TEXT/MIX).	the screen and the chosen subpage is held until you cancel.
Enlarge the teletext display.	Press (once to enlarge the upper half. Press twice to enlarge the lower half.	world wenter and is enlarged.
	Press again to restore the normal display.	E COLO CONTROL ON CONTROL CONT
Reveal concealed information (e.g. answers to a quiz).	Press @ (REVEAL).	The information is revealed.
	Press again to conceal the information.	A Company
Watch the TV programme while	1. Request a new page.	The numbers are entered.
waning for a requessed page to be displayed.	2. Press @ (TEXT CL).	The TV program is displayed, and the requested page number and other teletext data appear at the top of the screen.
	3. When the requested page has been captured, the page number remains and the other data disappears.	P201
	4. Press eto view this page.	The requested page is displayed.

Some of the features may not be available depending on the Teletext service.

the .
F 100
1
2.55
77.7
C. 4
1
S. Bise's
CALL VI
13.00
1.3
B b c 1
10.0
Tital .
21.35
1000
4.76
815
F2 4 .
V-1
41 3 45
110
A
1.273
29.14
7
F . C.
2 2 3 750
Au. 6.2
21.1
1
2: 1
1
12.4
4
8 2 3
. 60
9
e e
ete
slete
elete
Telete
Telete
f Telete
of Telete
of Telete
s of Telete
s of Telete
res of Telete
ires of Telete
ures of Telete
tures of Telete
atures of Telete
eatures of Telete
eatures of Telete
Features of Telete
Features of Telete
d Features of Telete
ed Features of Telete
ed Features of Telete
iced Features of Telete
nced Features of Telete
anced Features of Telete
ranced Features of Telete
wanced Features of Telete
dvanced Features of Telete
Advanced Features of Telete
Advanced Features of Telete
Advanced Features of Telete
e Advanced Features of Telete
he Advanced Features of Telete
the Advanced Features of Telete
the Advanced Features of Teleter
e the Advanced Features of Telete.
se the Advanced Features of Telete.
ise the Advanced Features of Telete.
Use the Advanced Features of Telete.
Use the Advanced Features of Telete.
o Use the Advanced Features of Telete.
to Use the Advanced Features of Telete.
to Use the Advanced Features of Telete
w to Use the Advanced Features of Teleter
W to Use the Advanced Features of Teleter
ow to Use the Advanced Features of Teleter
low to Use the Advanced Features of Telete
How to Use the Advanced Features of Telete
How to Use the Advanced Features of Teletext

How to	Action	Result (On-screen display)
Request the index page.	Press @ (INDEX).	IND®X SE appears.
Request the subtitle page (p888).	Press O.	The subtitle page is displayed (p888).
Access the next or preceding page.	Press @ (PAGE +) or @ (PAGE -).	The next or preceding page appears.

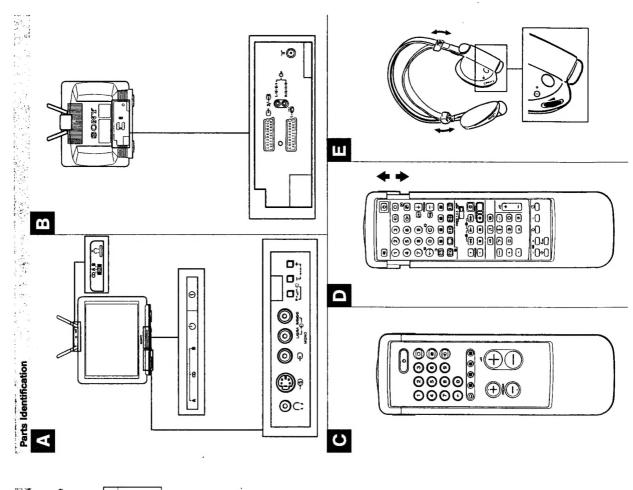
1-7. ADDITIONAL INFORMATION

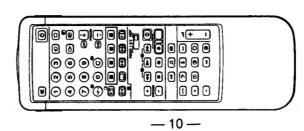


Action	Result
Press one of the coloured buttons which corresponds to the coloured prompt on the teletext.	The selected teletext page appears.

Note Correct FASTEXT operation depends on the necessary signals sent from the TV station.

Summary Note
A brief explanation of all TV and Commander functions can be referred to on page 21.





12

This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to

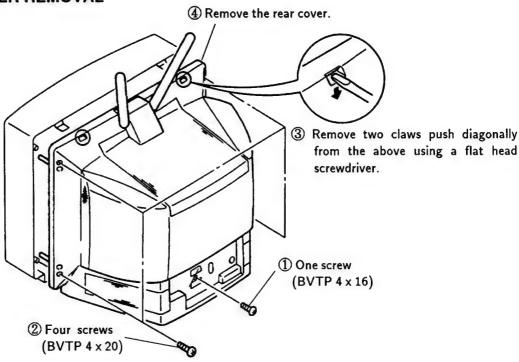
| D Remote Commander - full function size the commander - full function size the commander is the commander in the commander is the commander is the commander in the commander is the commander in the commander is the commander is the commander in the commander is the commande

			i ci	Mamo
Sign	Name N	Refer to page	끃	Mute on/off button
6	toling and a second	7	€	Standhy hutton
÷	wall power switch	•	27007	
e	Standby indicator	4	6,7,8,9, and 0	Number buttons
A-0-B	NICAM	10, 11	φ	Input mode selector
C:	Headphones jack (stereo minijack)	17	0	TV power on/TV mode selector button
Ф Ф 8	Input jacks (S-video/ video/audio)	17	Ф	Output mode selector
	Function selector		(h)	Teletext button
	(Programme/	9, 18	C *	Music button
+	Adjustment		A/B	Selector for NICAM
1	function selector	2 2 3	/-	Double-digit entering button
C	Transmitter power switch	12	v	Direct channel
O-A-B	Audio mode selector	12	8	Specific button
3 TV set - Re	Rear		8 6	Space sound botton
Sign	Name	Refer to page		Teletext operation
84/c+	21-pin Euro-AV connector (S-	1,		buttons Fastext buttons
9	video/video input, TV/video output)	-	•	On-screen display
	21-pin Euro-AV)	button
<u>-</u>	connector (RGB/ video input, TV output	11	‡	Picture and sound adjustment reset button
đ	Audio output jacks	17	Z+/-	Volume control
)	(phono jacks)		PROGR +/-	Programme selector
!	Aenal terminal (IEC type)	ь	**************************************	Picture and sound controls
흥	Commander - simp	simple side	VIDEO 1/2/3 MDP	Video equipment
Sign	Name	Refer to page		Selector
φ	Input mode selector	8	4	video equipment operation buttons
1	Teletext button	14	000	Programme number clear button
	Fastext buttons	16	4	Channel preset
0	TV mode selector	4	>	button
Ð	Standby button	4	+	Tuning buttons
1,2,3,4,5, 6,7,8,9, and 0	Number buttons	6	♦	Channel store button
	Double-digit		0	Station label button
/-	entering button	ס	E Headphones	
7	Volume control	6	Sign	Name
PROGR +/-	Programme selector	6	Θ	Power switch
		,	7	Volume control

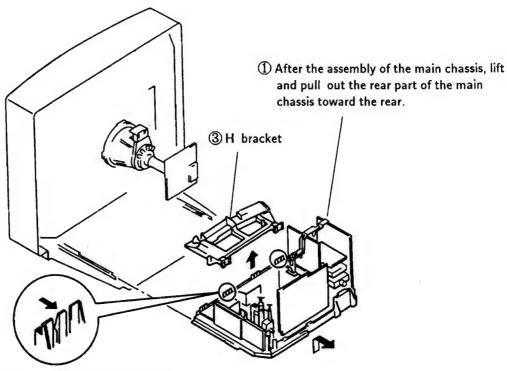
		D Remote Co	Remote Commander - full f	full function side
		Sign	Name	Refer to page
Name	Refer to page	¥	Mute on/off button	10
n power switch	4	Ð	Standby button	4
odby indicator	4	1,2,3,4,5, 6,7,8,9, and 0	Number buttons	თ
AM	10, 11	φ	Input mode selector	18
dphones jack reo minijack)	17	0	TV power on/TV mode selector button	4
nt jacks (S-video/ o/audio)	17	ф	Output mode selector	20
ction selector		(1)	Teletext button	14
gramme/	9, 18	C	Music button	10
stment		A/B	Selector for NICAM	Ξ
tion selector	20 20 20 20 20 20 20 20 20 20 20 20 20 2	/-	Double-digit entering button	თ
ch	12	O	Direct channel entering button	6,7
o mode selector	71	8	Space sound button	10
		6	Request time display	0
Name oin Euro-AV	Refer to page		Teletext operation buttons	14, 15
nector (S-	17		Fastext buttons	16
ideo output)		•	On-screen display button	01
nector (RGB/	17	*	Picture and sound	ç
of input, 14			button	2
io output jacks	17	7+7	Volume control	6
no jacks)		PROGR +/-	Programme selector	6
al terminal type)	е	0 ¢ 0 2 4 +/-	Picture and sound controls	10
ander – simp	simple side	VIDEO 1/2/3, MDP	Video equipment selector	19
t mode	18	♦ • = • • • • • • • • • • • • • • • • •	Video equipment operation buttons	19
text button	14	Coo	Programme number	80
ext buttons	16	4	Channel preset	
node selector	4	P	button	5 8
dby button	4	+	Tuning buttons	5
iber buttons	o,	< e	Channel store button	5 8
ble-digit ring button	6	Headphones	Station label button	,
me control	6		Name	Refer to page
5		6	4	

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

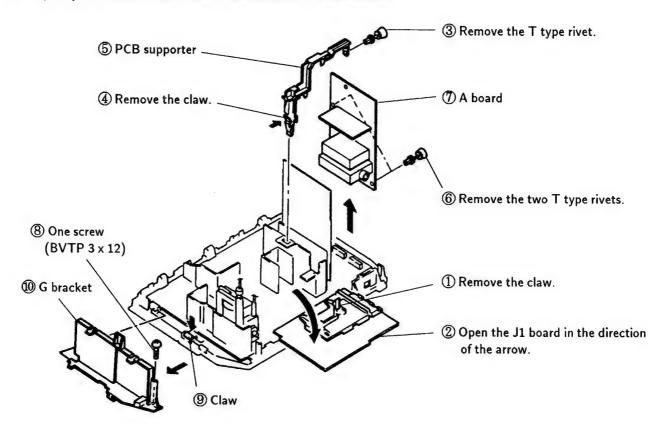


2-2. CHASSIS ASSEMBLY REMOVAL



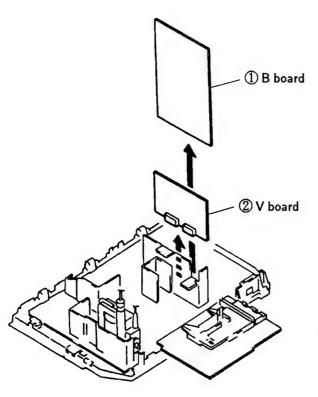
② Push the two claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

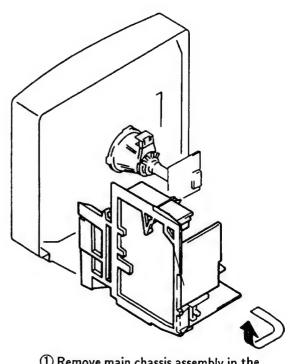
2-3. A, A1, J1 BOARDS AND G BRACKET REMOVAL



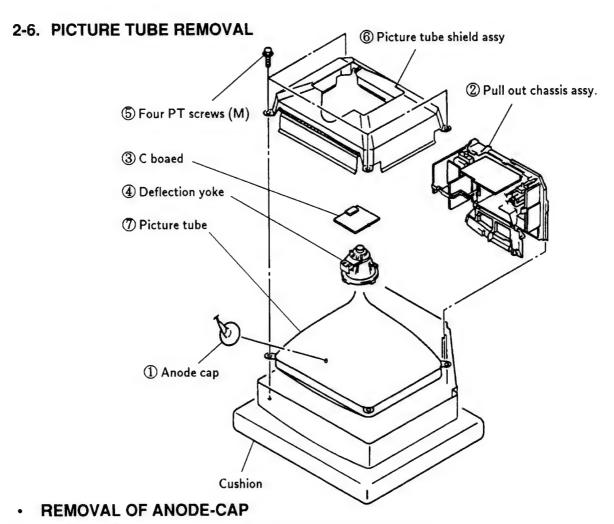
2-4. B AND V BOARDS REMOVAL

2-5. SERVICE POSITION



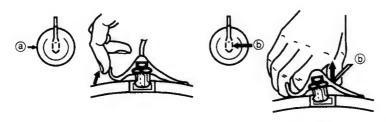


(1) Remove main chassis assembly in the direction of the arrow.

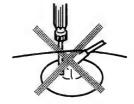


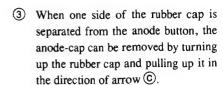
Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

REMOVING PROCEDURES

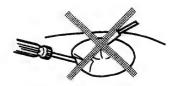


- 1 Turn up one side of the rubber cap in the direction indicated by the arrow a.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the
- arrow (b).
- **HOW TO HANDLE AN ANODE-CAP**
- 1 Don't hurt the surface of anode-caps with sharped material!
- 2 Don't press the rubber hardly not to hurt inside of anode-caps!
 - A metal fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





Anode button



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way:

① Contrast80%

(or remote control normal)

☼ Brightness ······50%

- Carry out the following adjustments in this order:
 - 1. Beam landing
 - 2. Convergence
 - 3. Focus
 - 4. White balance

Note: Testing equipment required

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparations:

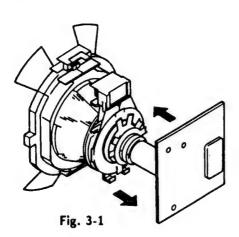
- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

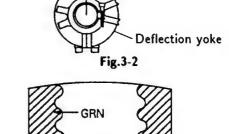
3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 Contrast
 Bightness normal
- 2. Position neck ass'y as shown in Fig 3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.

(See Figures 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
 (See Figure 3-4.)



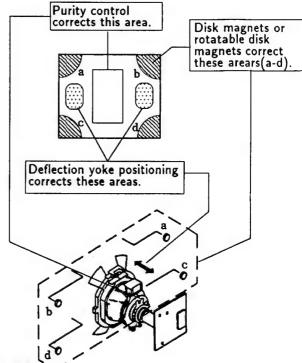


RED

BLU

Purity control

Fig. 3-3



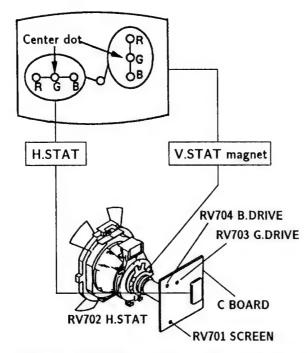
-15 - Fig. 3-4

3-2. CONVERGENCE

Preparations:

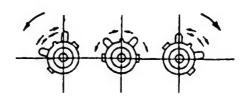
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

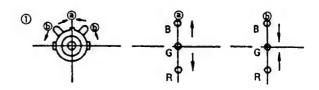


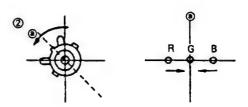
- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
 (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

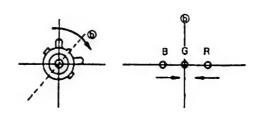
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

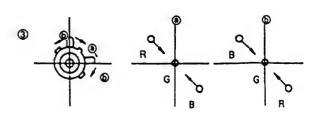


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.

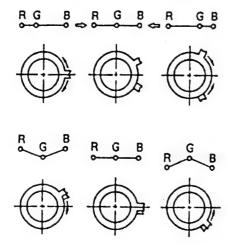






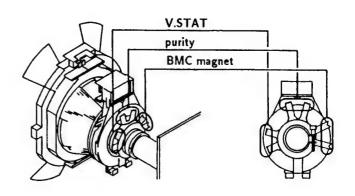


• Operation of BMC (Hexapole) Magnet



 The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

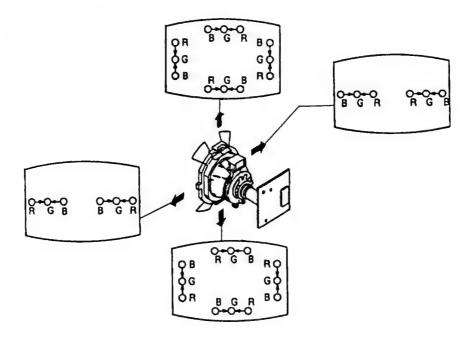


(2) Dynamic Convergence Adjustment Preparations:

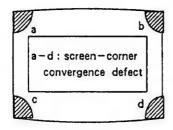
Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.

- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the defelection yoke spacer.



(3) Screen corner convergence

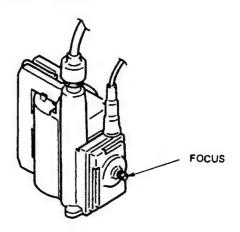




Install the permalloy assembly for the section with faulty.

3-3. FOCUS

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

[Screen G2 setting]

- 1. Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
- 4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

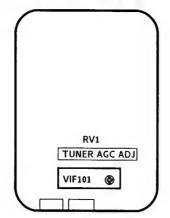
[White balance adjustment]

- 1. Input an all-white signal from the pattern generator.
- 2. Set the picture brightness and color controls to their normal levels.
- 3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS

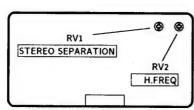


A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (AGC VR)

- 1. Align with an appropriate signal between stations.
- 2. Adjust AGC VR so that snow noise and cross modulation just disappear from the picture.

IFG5.5S SIF



IFG5.5S SIF -component side-

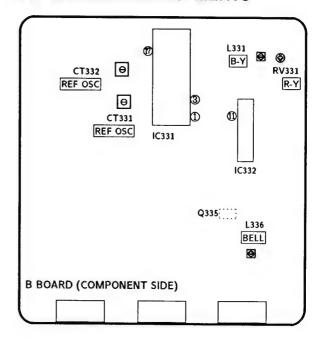
STEREO SEPALATION ADJUSTMENT (RV1)

- 1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
- 2. Check the stereo indicator.
- 3. Connect on oscilloscope to pin® (CH1) of CN1 through band pass filter of 1KHz
- 4. Adjust RV1 so that 1KHz voltage goes down to the minmum.

H FREQ (RV2)

- Input a PAL COLOR BAR signal, then connect a jumper between pin IC4 and GND.
- Connect a frequency counter to pin IFG5.5S
 (HP) of CN1 through a probe of 10:1.
- 3. Adjust RV2 (H.FREQ) 15.625 ± 50 Hz.
- 4. After adjustment, remove the jamper.

4-2. B BOARD ADJUSTMENTS



REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

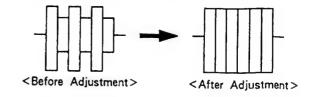
- 1. Input a PAL color bar signal.
- 2. Ground pin n of the IC331.
- 3. Adjust CT332 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16MHz)

- 1. Input an NTSC color bar signal.
- 2. Ground pin T of IC331.
- 3. Adjust the CT331 to obtain synchronization.
- 4. Remove the jumper grounding pin @ of IC331.

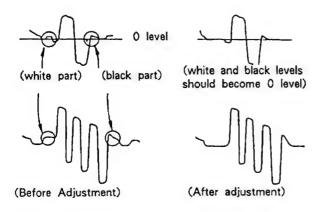
BELL FILTER ADJUSTMENT (L336)

- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to the emitter of Q335.
- 3. Adjust L336 so that the waveform is flat.

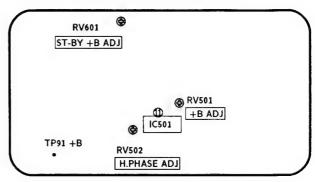


DISCRIMINATION ADJUSTMENTS (RV331 and L331)

- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to pin ① of IC331.
- Adjust RV331 until the white and black sections
 of the waveform at pin ① are at the 0 level.
 Connect the oscilloscope to pin ③ of IC331.
- 4. Adjust L331 until the white and black sections of
- 5. the waveform at pin 3 are at the 0 level.



4-3. D BOARD ADJUSTMENTS



D BOARD (COMPONENT SIDE)

+B ADJUSTMENT (RV501)

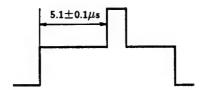
- 1. Connect the digital multimeter to TP91.
- 2. Adjust RV501 to obtain 135 ± 0.2 V.

ST-BY +B ADJUSTMENT (RV601)

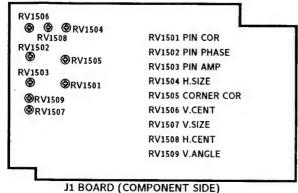
- 1. Put the system into \circlearrowleft standby mode (remote commander).
- 2. Connect the digital multimeter to TP91.
- 3. Adjust RV601 to obtain $135 \pm 3V$.
- 4. Take the system out of \circlearrowleft standby mode (remote commander).

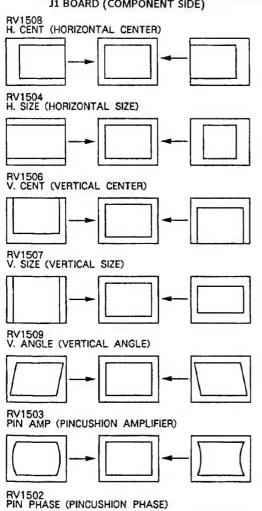
H.PHASE ADJUSTMENT (RV502)

- 1. Input a PAL color bar signal.
- 2. Set the picture and brightness controls to their normal levels.
- 3. Set RV1508 (H.CENT) to its mechanical center.
- 4. Connect the oscilloscope to pin (I) (SCP) of IC 501.
- 5. Rotate RV502 to adjust to $5.1 \pm 0.1 \mu s$.



4-4. J1 BOARD ADJUSTMENTS

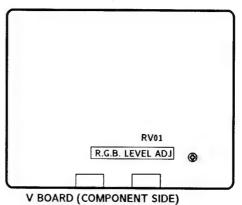




RV1501 PIN. COR (PINCUSHION CORRECT)

RV1505 CORNER. COR (CORNER CORRECT)

4-5. V BOARD ADJUSTMENT



RGB LEVEL ADJUSTMENT (RV01)

- 1. Maximize the picture setting.
- 2. Adjust RV01 so that the RGB output is 0.75V.

4-6. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

- 1. Set the system to receive a test pattern.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Switch off the power.
- While depressing the adjusting buttons + and
 simultaneusly, turn on the power. (SUB mode is obtained)
- 5. Minimize the O contrast setting.
- 6. Adjust the \$\footnote{\text{the}}\$ brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
- 7. Depress the \diamondsuit (store) button of the remote commander.

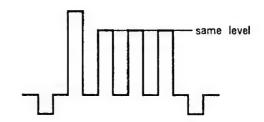
(SUB mode is released)

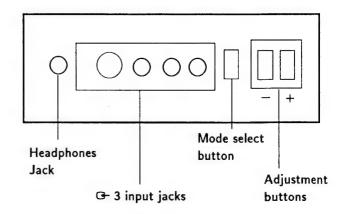
If there is no test color pattern

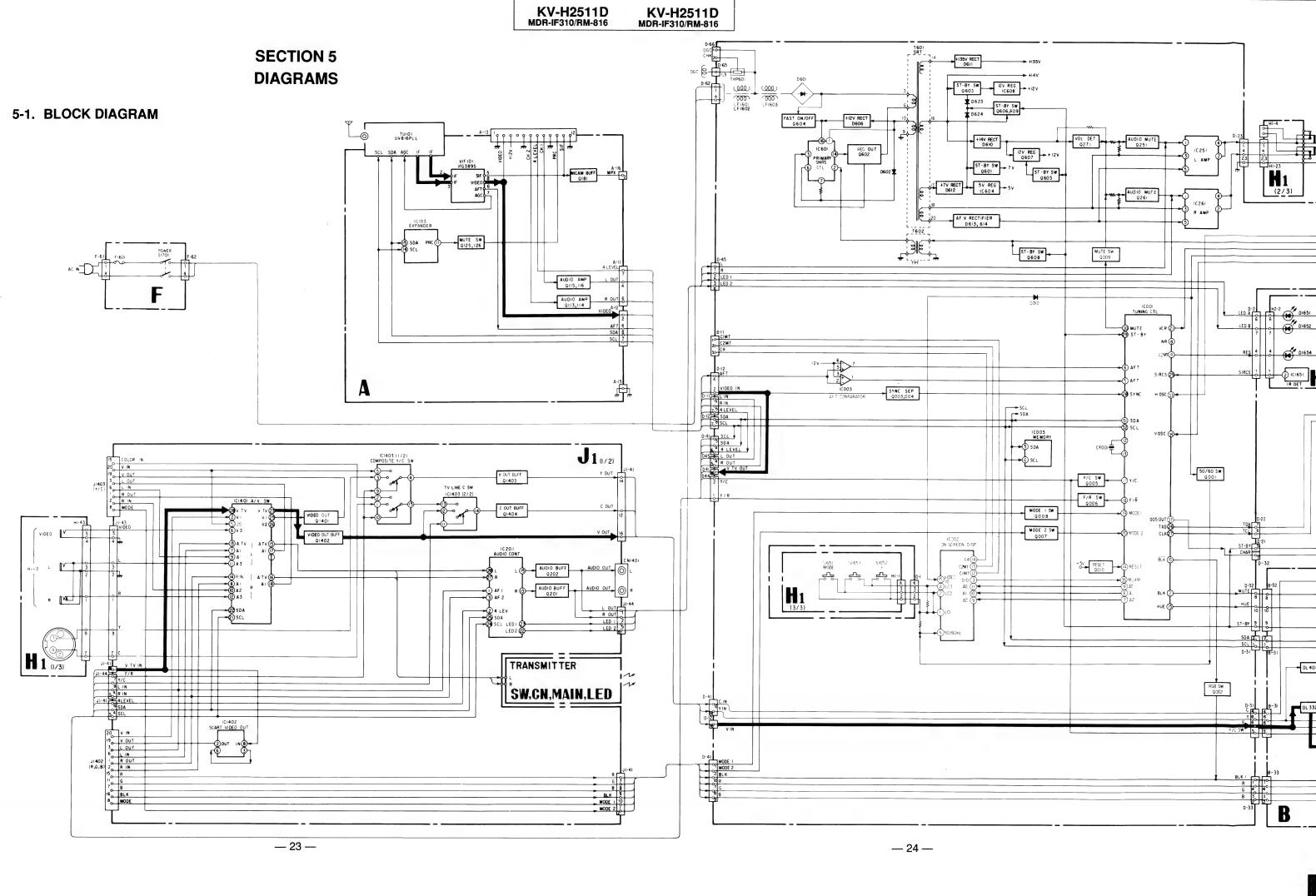
- 1. Set the system to receive a color pattern.
- Press → ← on the remote commander to put the system into normal mode.
 Set the ③ color to its normal state.
- 3-5. Steps are the same as above.
- 6. Since 20 IRE is nearly blue, adjust the ☼ brightness control so that the blue barely glows.
- 7. Same as step 7 above.
- Press → ← on the remote commander to put the system into normal mode.

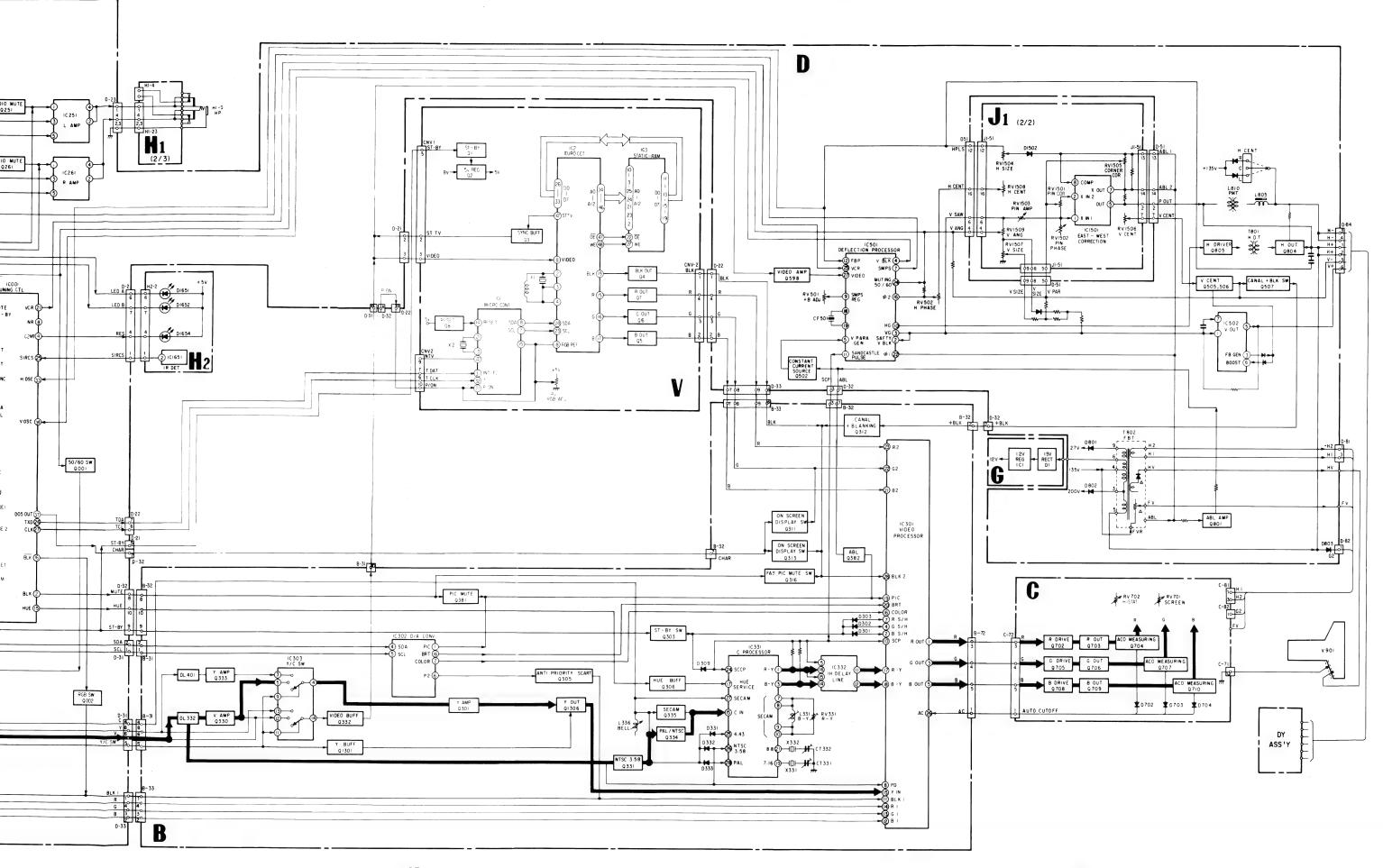
SUB COLOR ADJUSTMENT

- 1. Set the system to receive color bars.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Cut off the power.
- While depressing the adjustment buttons + and
 simultaneusly, turn on the power. (SUB mode is obtained).
- 5. Adjust the color control so that the B out waveform (pin 5 of C board connector CNC72) is as shown in the figure below.
- 6. Depress the \diamondsuit (store) button of the remote commander. (SUB mode is released)

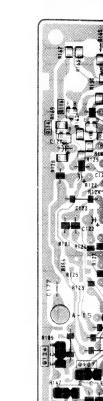




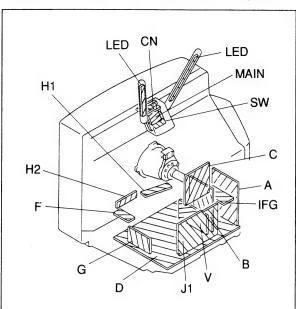




- A Board -



5-2. CIRCUIT BOARDS LOCATION



Components identified by shading and marked $oldsymbol{\Lambda}$ are critical for safety. Replace only with the part number specified.

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- All capacitors are in µF unless otherwise stated (p=pF). Working voltage of 50V or less are not indicated, except for electrolytics.
- · Resistors which do not hane a power rating value shown are as follows.

Pitch: 5 mm Power rating: 1/4W

Chip resistors are 1/10W.

- All resistor values are in Ohms. $k\Omega=1000\Omega$, $M\Omega=1000k\Omega$.
- m: nonflammable resistor.
- w~: fusible resistor.
- \triangle : internal component.
- : panel outline or servicing adjustment.
- · All variable and adjustable resistors have characteristic curve B. unless otherwise noted.
- · All voltages shown are in Volts.
- Readings were taken with a 10 $M\Omega$ digital multimeter.
- · Readings were taken with a colour-bar signal input.
- · Voltage variations may be occur to normal production tolerance.
- : Voltage supply rails.
- Signal path.

Reference information

RESISTOR : RN METAL FILM : RC SOLID : FPRD NON-FLAMMABLE CARBON : FUSE NON-FLAMMABLE FUSIBLE : RS NON-FLAMMABLE METALOXIDE : RB NON-FLAMMABLE CEMENT

NON-FLAMMABLE : RW

WIREWOUND **VARIABLE RESISTOR** : ×

COIL : LF-8L MINIATURE INDUCTOR

CAPACITOR : TA **TANTALUM** : PS STYROL

> : PP POLYPROPYLENE

:PT **MYLAR**

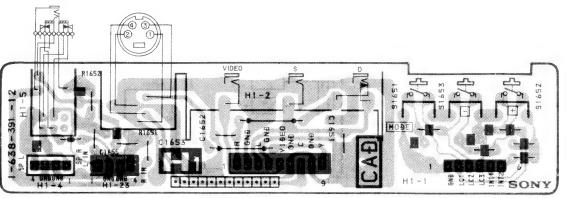
: MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE

: ALB **BIPOLAR**

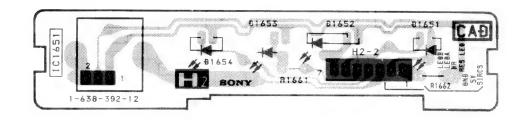
: ALT HIGH TEMPERATURE

HIGH RIPPLE : ALR

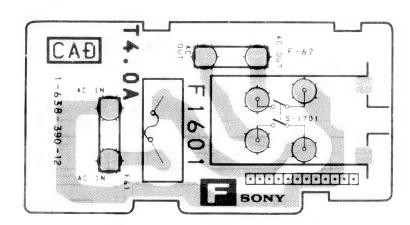


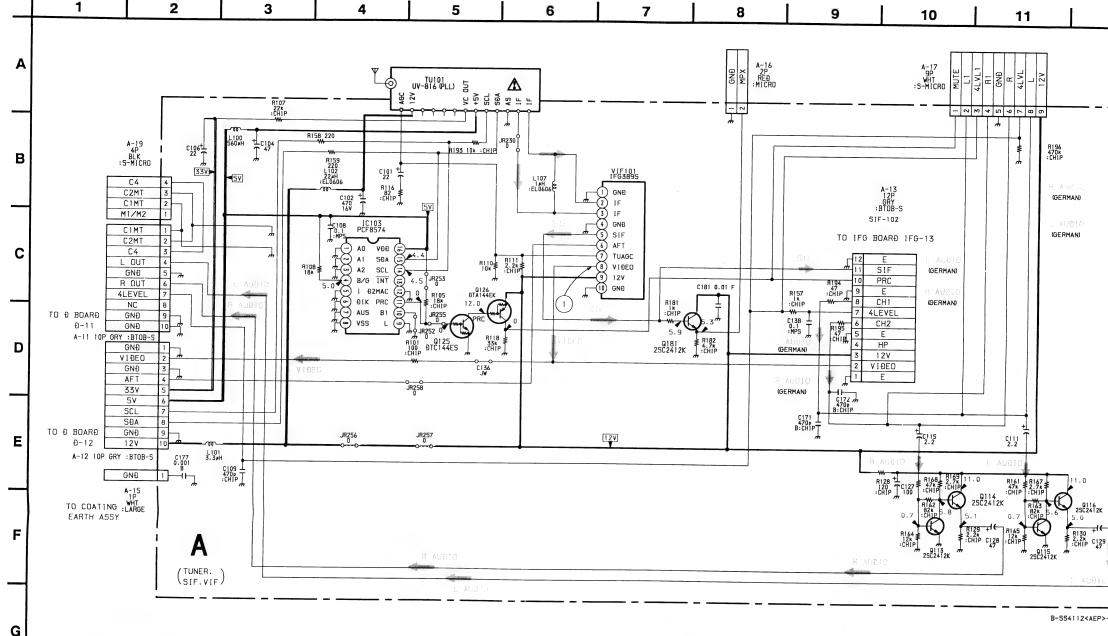


- H2 Board -



- F Board -

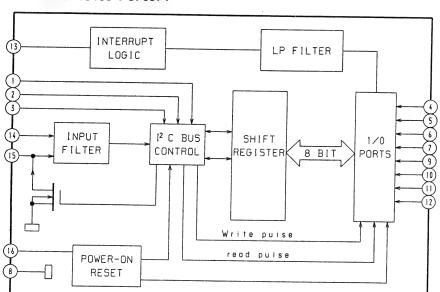


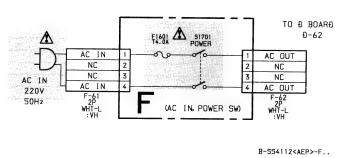


— A Board —

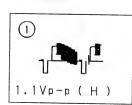
03 PCF8574	EXPANDER
13 2SC2412K	AUÐIO AMP
14 25C2412K	AUÐIO AMP
15 25C2412K	AUÐIO AMP
16 2SC2412K	AUÐIO AMP
25 DTC144ES	MUTE SW
26 BTA144EK	MUTE SW
31 25C2412K	NICAM BUFFER
֡	13 2SC2412K 14 2SC2412K 15 2SC2412K 16 2SC2412K 25 DTC144ES 26 DTA144EK

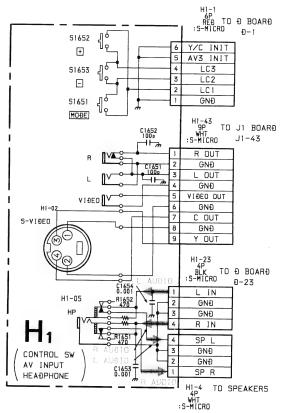
A BOARD IC103 PCF8574



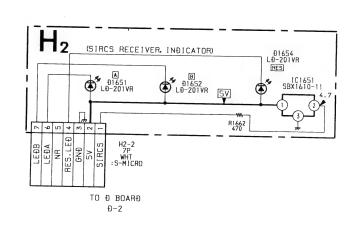


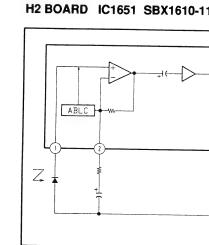
- A Board -





B-SS4111<UK.>-H1





— H2 Board —

IC1651	SBX1610-11	INFRAREÐ RECIVER		
£1651	LÐ-201VR	AUÐIO CHANNEL A INÐICATOR		
Ð1652	LÐ-201VR	AUÐIO CHANNEL B INÐICATOR		
Ð1654	LÐ-201VR	RESET INDICATOR		

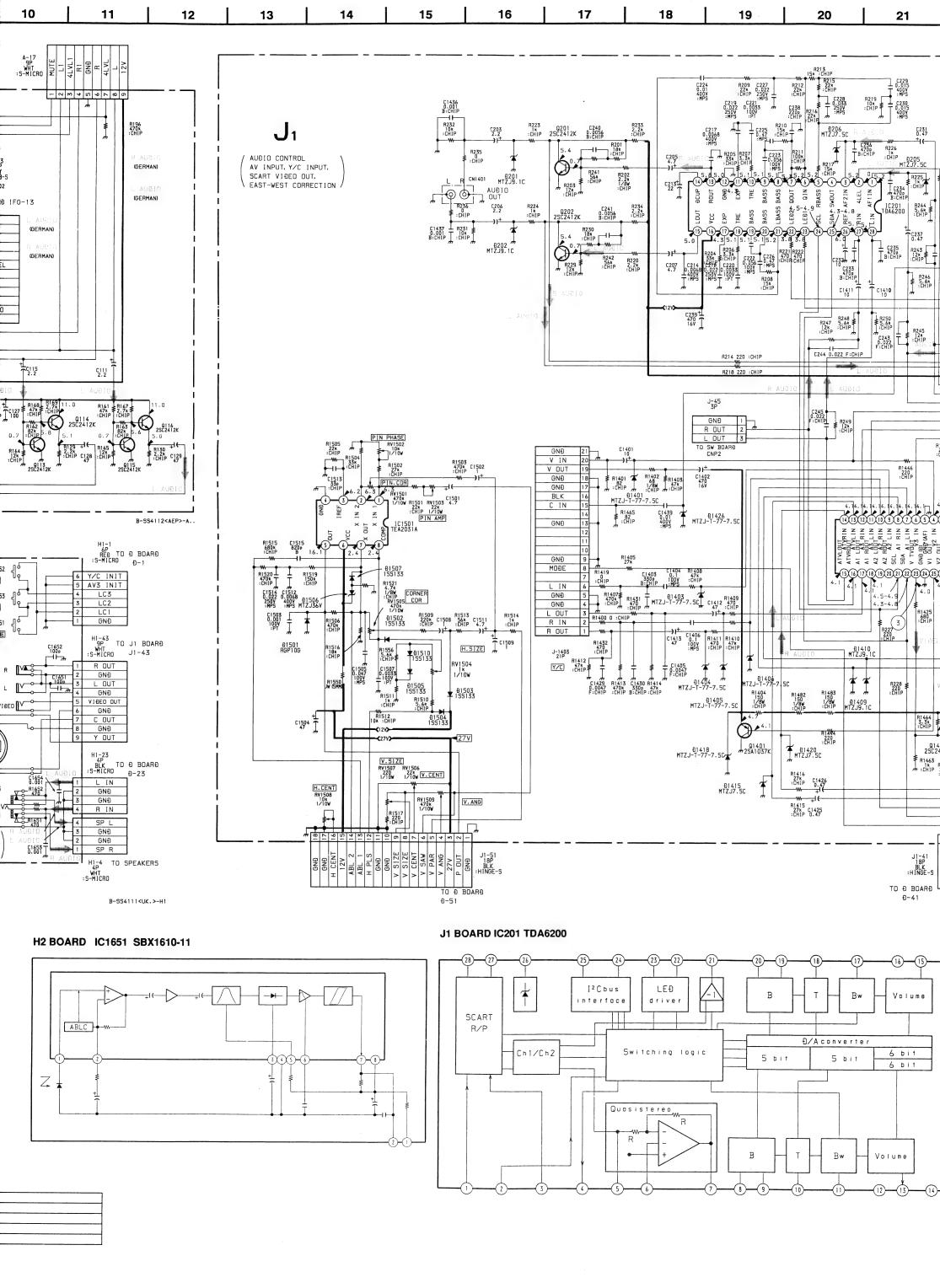
K

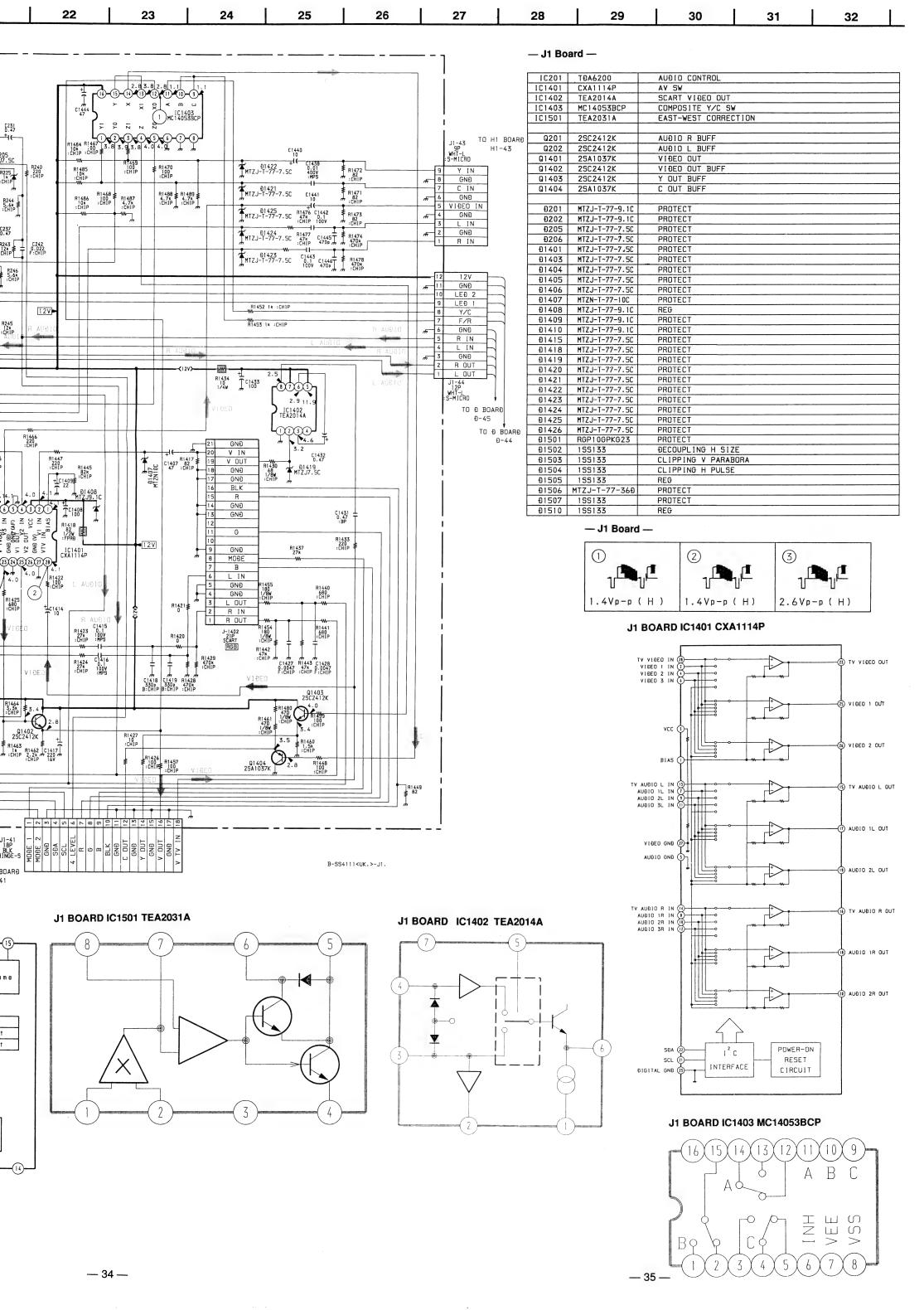
М

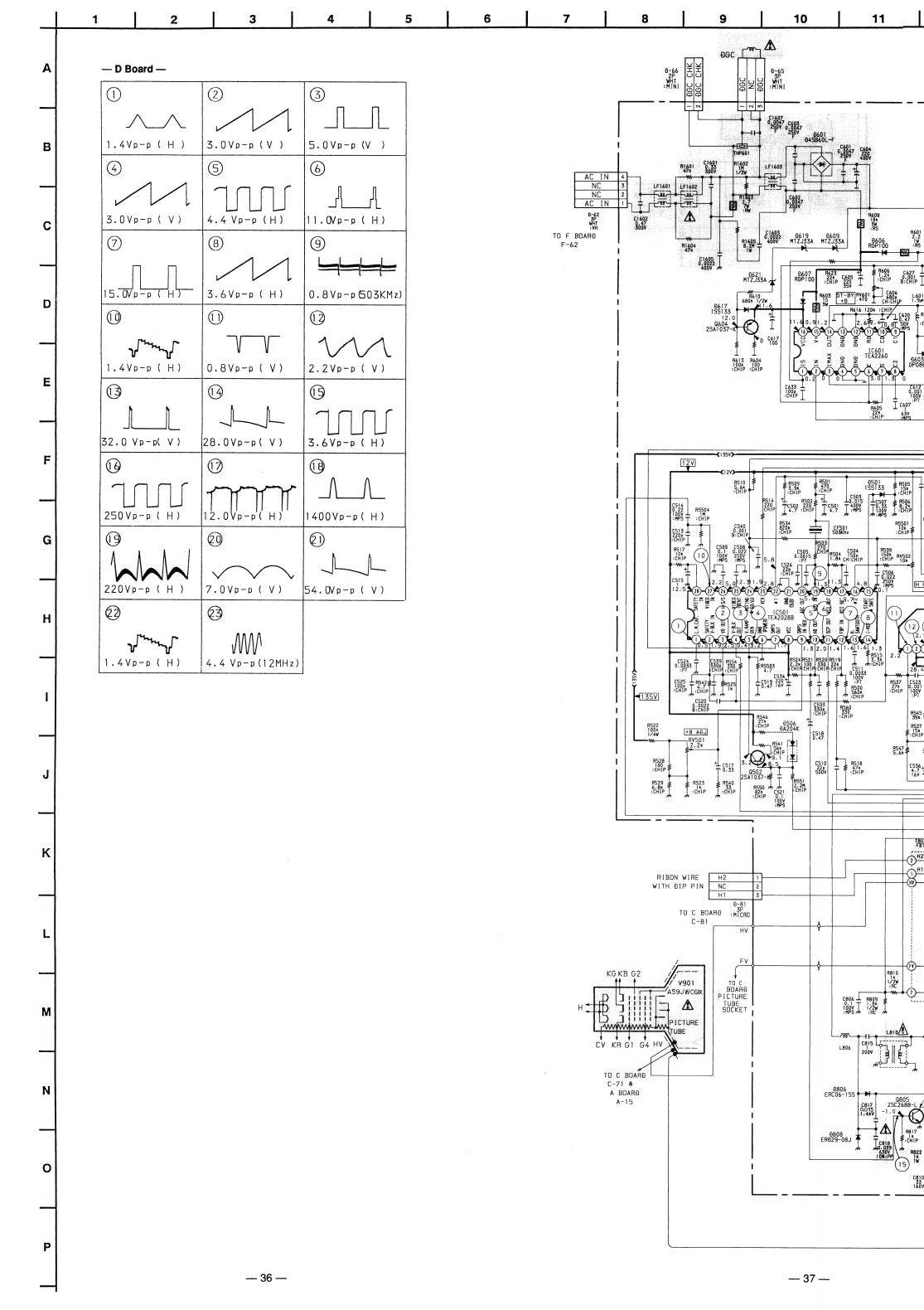
N

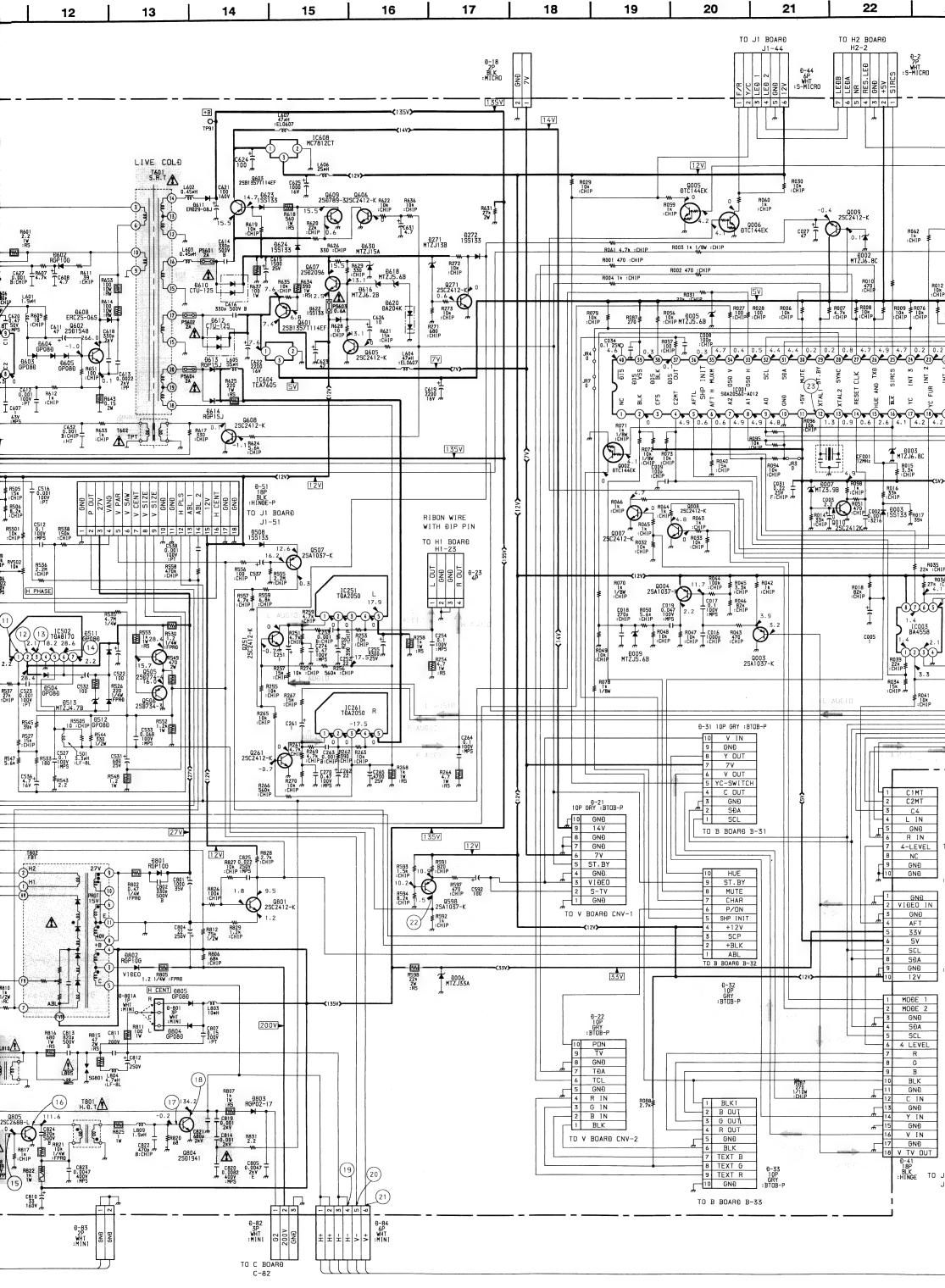
0

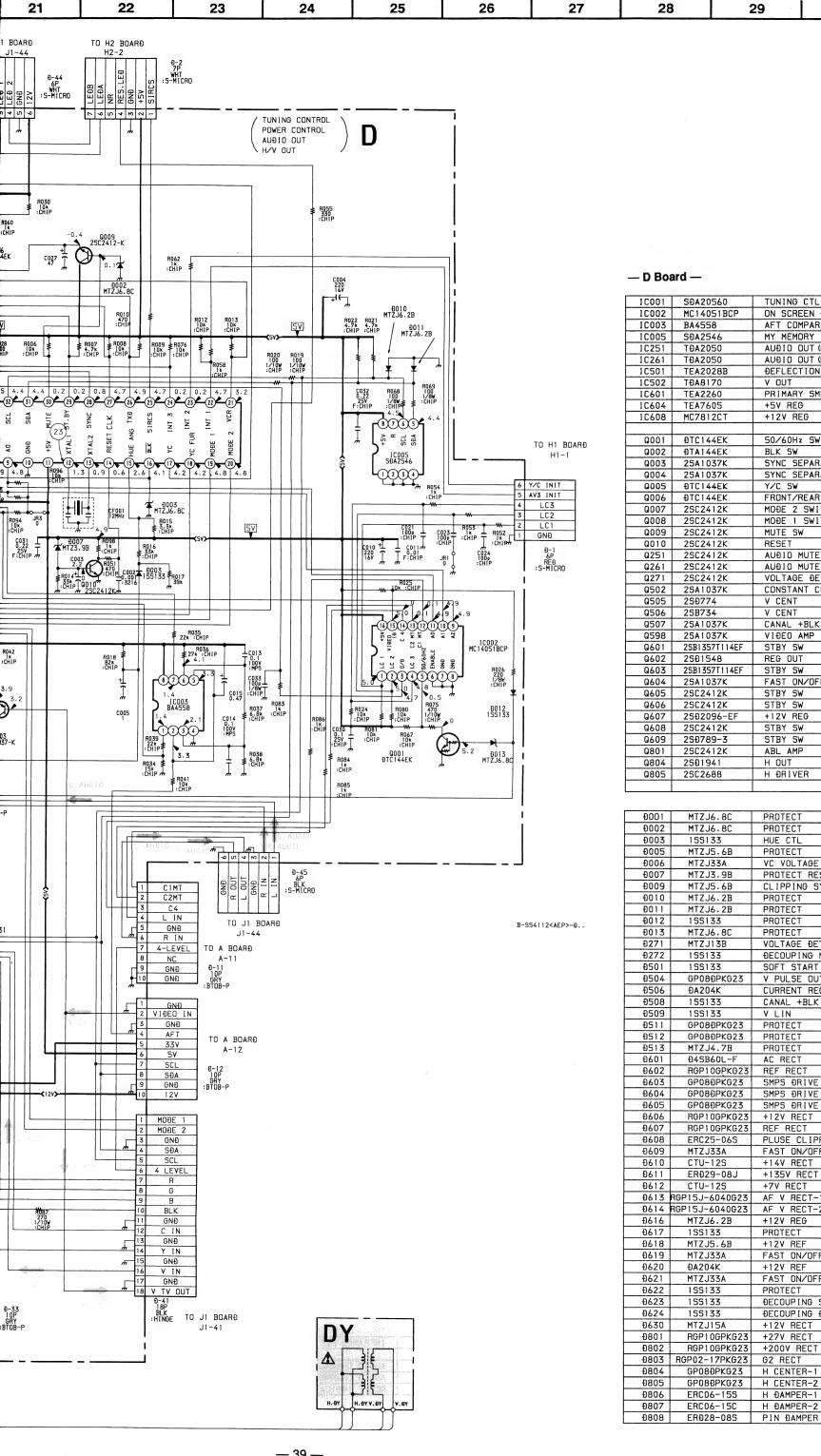
P





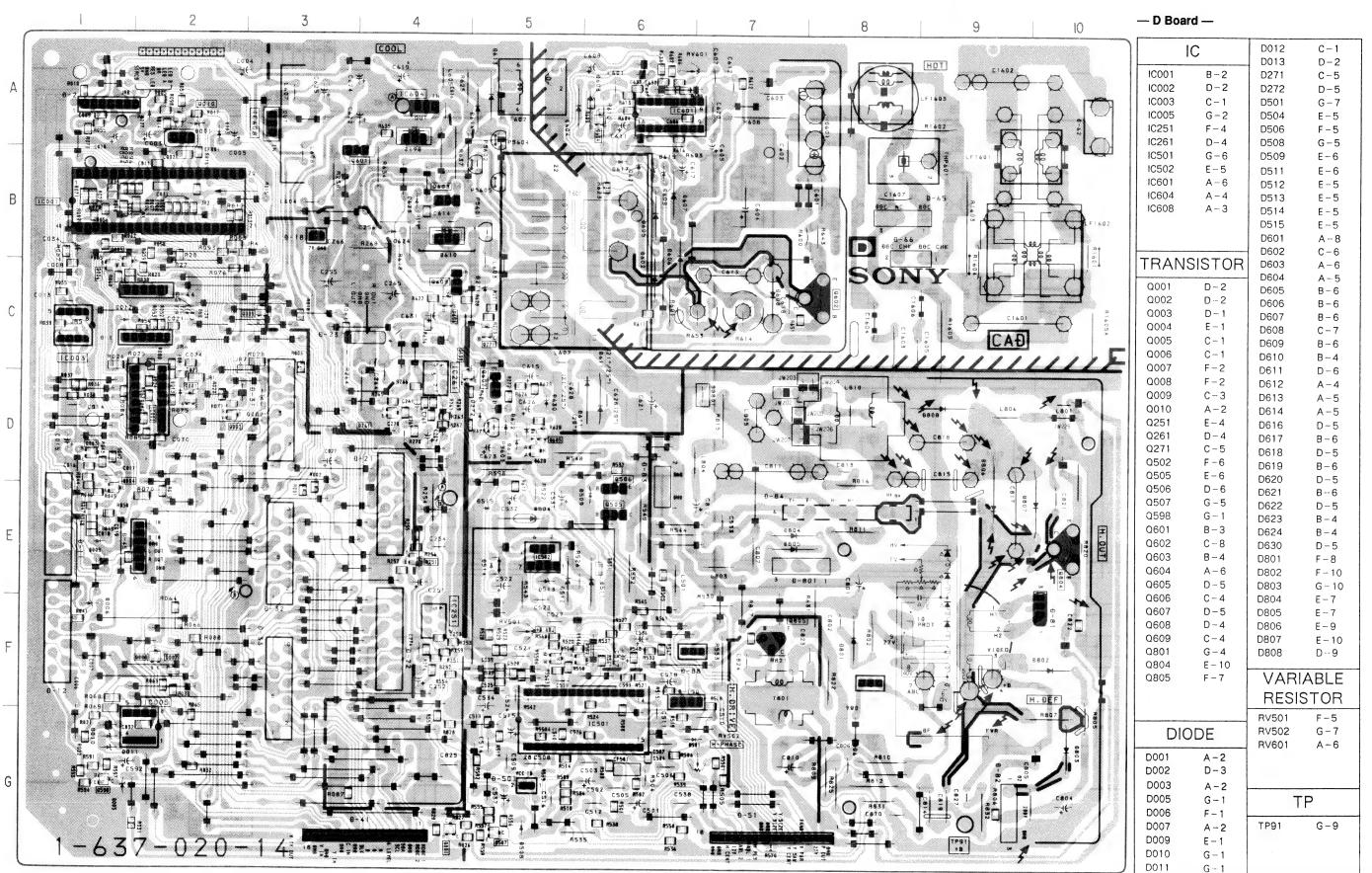


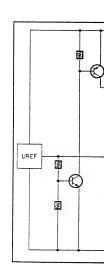




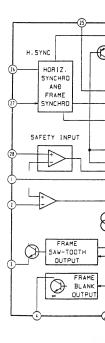
— D Bo	ard —	
	•	
IC001 IC002	SĐA20560 MC14051BCP	TUNING CTL ON SCREEN DISPLAY
10003	BA4558	AFT COMPARATOR
1C005 1C251	SĐA2546 TĐA2050	MY MEMORY AUDIO OUT (L)
10251	TĐA2050	AUDIO OUT (R)
IC501	TEA2028B	ĐEFLECTION PROCESSOR
IC502 IC601	TĐA8170 TEA2260	V OUT PRIMARY SMRS CTL
IC604	TEA7605	+5V REG
10608	MC7812CT	+12V REG
Q001	ĐTC144EK	50/60Hz SW
Q002 Q003	ÐTA144EK 25A1037K	BLK SW SYNC SEPARATOR
Q004	25A1037K	SYNC SEPARATOR
0005	DTC144EK	Y/C SW
Q006 Q007	ÐTC144EK 2SC2412K	FRONT/REAR SW MOĐE 2 SWITCH
8000	25C2412K	MOĐE 1 SWITCH
Q009 Q010	25C2412K 25C2412K	MUTE SW RESET
Q251	25C2412K	AUÐIO MUTE
Q261	25C2412K	AUÐIO MUTE
Q271 Q502	2SC2412K 2SA1037K	VOLTAGE DETECT CONSTANT CURRENT SOURCE
Q505	25Đ774	V CENT
Q506	25B734	V CENT
Q507 Q598	25A1037K 25A1037K	CANAL +BLK VIĐEO AMP
Q601	2SB1357T114EF	STBY SW
Q602 Q603	2SÐ1548 2SB1357T114EF	REG OUT STBY SW
Q604	25A1037K	FAST ON/OFF
0605	25C2412K	STBY SW
Q606 Q607	2SC2412K 2SĐ2096-EF	STBY SW +12V REG
0608	25C2412K	STBY SW
Q609 Q801	2SĐ789-3 2SC2412K	STBY SW ABL AMP
Q804	2502412K	H OUT
Q805	2502688	H ÐRIVER
Đ001	MTZJ6.8C	PROTECT
Đ002	MTZJ6.8C	PROTECT
Đ003	155133	HUE CTL
Đ005 Đ006	MTZJ5.6B MTZJ33A	PROTECT VC VOLTAGE REGULATION
Đ007	MTZJ3.9B	PROTECT RESET
Đ009 Đ010	MTZJ5.6B MTZJ6.2B	CLIPPING SYNC LEVEL PROTECT
Đ010	MTZJ6.2B	PROTECT
Đ012	155133	PROTECT
Đ013 Đ271	MTZJ6.8C MTZJ13B	PROTECT VOLTAGE DETECT
Đ272	155133	ĐECOUPING MUTE AUĐIO
Ð501 Ð504	15S133 GP08ĐPKG23	SOFT START V PULSE OUT
Ð504	ĐA204K	CURRENT REG
Ð508	155133	CANAL +BLK LEVEL
Ð509 Ð511	15S133 GP08ĐPKG23	Y LIN PROTECT
Ð512	GP08ĐPKG23	PROTECT
Ð513 Ð601	MTZJ4.7B Đ4SB6OL-F	PROTECT AC RECT
Ð602	RGP10GPKG23	REF RECT
£603	GP08DPKG23	SMPS DRIVE 1
Ð604 Ð605	GP08ĐPKG23 GP08ĐPKG23	SMPS DRIVE 2 SMPS DRIVE 3
9609	RGP10GPKG23	+12V RECT
Ð607 Ð608	RGP10GPKG23 ERC25-06S	REF RECT PLUSE CLIPPER
£609	MTZJ33A	FAST ON/OFF
Đ610	CTU-12S	+14V RECT
Ð611 Ð612	ERÐ29-08J CTU-12S	+135V RECT +7V RECT
Đ613	RGP15J-6040G23	AF V RECT-1
Ð614 Ð616	RGP15J-6040G23 MTZJ6.2B	AF V RECT-2 +12V REG
Ð617	155133	PROTECT
Ð618	MTZJ5.6B	+12V REF
Ð619 Ð620	MTZJ33A ĐA204K	FAST ON/OFF-2 +12V REF
Ð621	MTZJ33A	FAST ON/OFF-3
Đ622	155133	PROTECT DECOUDING STRY
Ð623 Ð624	155133 155133	DECOUPING STBY DECOUPING DTBY
Ð630	MTZJ15A	+12V RECT
Đ801 Đ802	RGP10GPKG23 RGP10GPKG23	+27V RECT +200V RECT
Đ80Z	RGP02-17PKG23	G2 RECT
Đ804	GP08DPKG23	H CENTER-1
Ð805 Ð806	GP08ĐPKG23 ERC06-155	H CENTER-2 H ĐAMPER-1
Đ807	ERC06-15C	H ĐAMPER-2
£08G	ERÐ28-08S	PIN DAMPER

— D Board —





D BOARD IC50



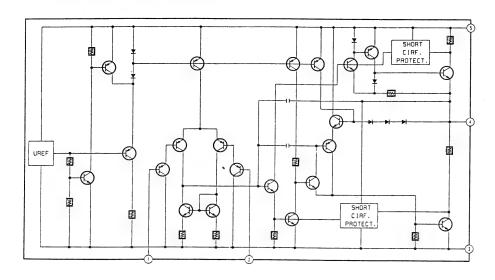


-6 -5

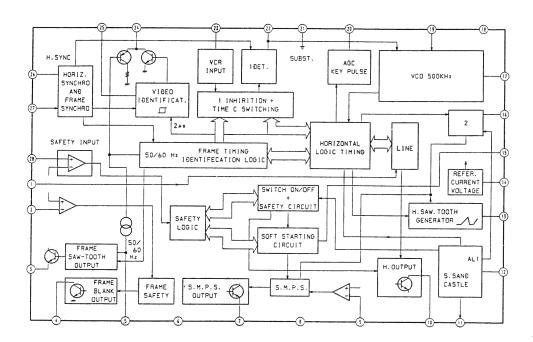
-5

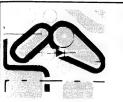
-5

D BOARD IC251, IC261 TDA2050



D BOARD IC501 TEA2028B

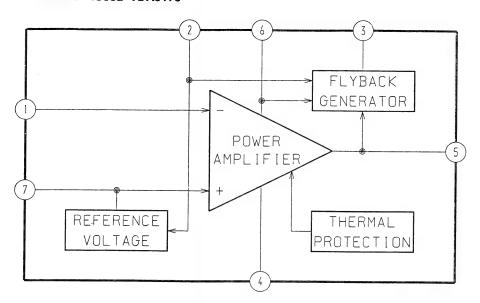




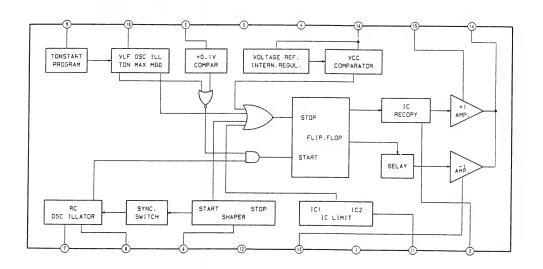
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D BOARD IC502 TDA8170

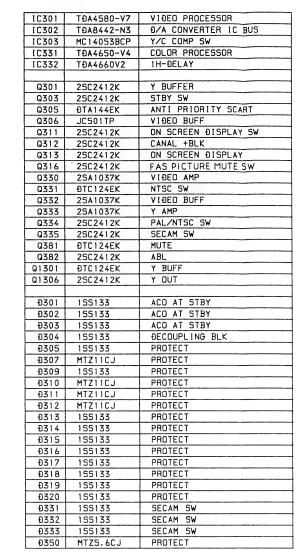


D BOARD IC601 TEA2260

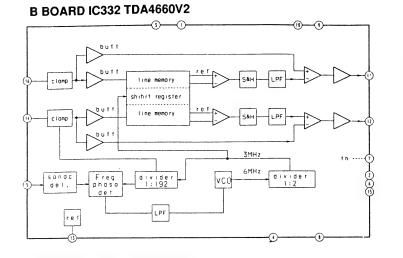


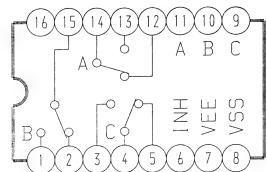
— B Board —

- B Board -

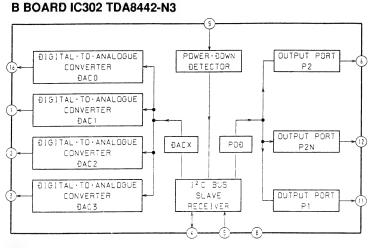


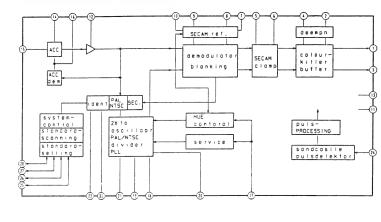
B BOARD IC303 MC14053BCP



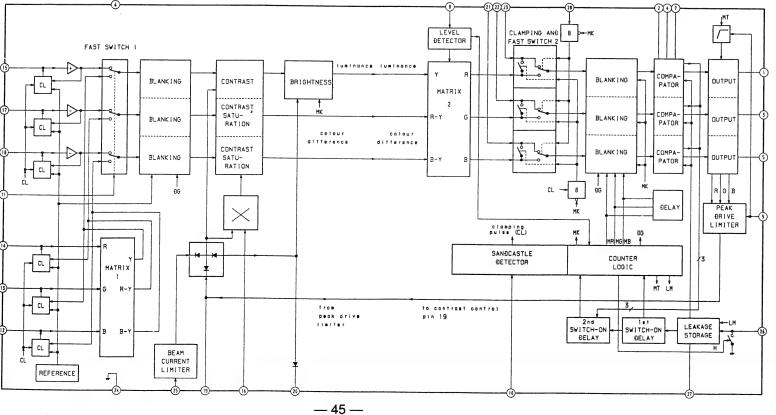


B BOARD IC331 TDA4650





B BOARD IC301 TDA4580-V7



		(2)
PAL. SECAM	NTSC 3.58/4.43	PAL, SECAM
4.8Vp-p (H)	4.8 Vp-p(H)	4.8 Vp-p (H)
2	(3)	(3)
1 174	_	क्रमें क्रमें
1, 1, 1, 1, 1, 1	n Jour Jour Jou	Lafter Lafter
NTSC 3.58/4.43	PAL, SECAM	NTSC 3.58/4.43
4.8Vp-p (H)	4.8Vp-p(H)	4.8Vp-p (H)
4	(5)	(5)
	Jana L	2 Juny 1
	PAI	SECAM
1 Vp-p (H)	0.4Vp-p (H)	0.36 Vp-p(H)
(5)	6)	(6)
1 174	D - U - U	
NTSC 3.58/4.43	PAL, SECAM	NTSC 3.58/4.43
0.46Vp-p(H)	0.9Vp-p(H)	0.7Vp-p(H)
(7)		(8)
		12-12-12-
PAL, SECAM	NTSC 3.58/4.43	PAL
1.1Vp-p (H)	NTSC 3.58/4.43 1 Vp-p (H)	PAL 0.5Vp-p(H)
8	8, , , , ,	9
~ 17~ 12~ 12~ 12~		No. On Do
SECAM	Hallas Aallas I	PAL
1.1 Vp-p (H)	NTSC 3.58/4.43 0.4Vp-p (H)	0.6Vp-p (H)
9	9, , , ,	(10)
		MINIM
	AnllanAnllan	
SECAM 1.3Vp-p (H)	NTSC 3.58/4.43 0.6 Vp-p(H)	SECAM 1.4 Vp-p (H)
(U)	(1)	
	12-0-11111-0-11	
SECAM	PAL	SECAM
0.2Vp-p(H)	0.2Vp-p(H)	0.12Vp-p (H)
(12)	(13)	😘
NTSC 3.58/4.43	PAL	SECAM
0.05Vp-p (H)	0.4Vp-p (H)	0.1 Vp-p(H)
(13)	(3)	(14)
ه معلو معلون	D.C	A Man
NITEC 7 FO // 17		SECVA AMPLI
NTSC 3.58/4.43 0.4 Vp-p (H)	PAL 1 Vp-p (H)	SECAM Vp-p (H)
(14)	()	(5)
	L II	
-J	1	Party Party
NTSC 3.58/4.43 . Vp-p (H)	PAL VOLO (H)	SECAM
	1 Vp-p (H)	0.9Vp-p(H)
(19)	(b) roue r	
-10	المحمد الم	_
NTSC 3.58/4.43	PAL, SECAM	NTSC 3.58/4.43
1 Vp-p (H)	0.4Vp-p (H)	0.54Vp-p(H)

— 46 **—**

- B Board -

As to the voltage volue shown by the mark * on the Schematic Diagram, see the another list.

	PAL	SECAM	NTSC3.58	NTSC4.43
1C301()	0.1	0.1	5.8	0.1
(1)	6.7	6.8	5.1	5.1
10331 (19)	3.1	3.6	3.1	2.8
1	3.0	3.5	2.9	2.7
\overline{n}	5.6	5.6	7.1	7.2
(3)	7.5	7.0	5.6	5.6
(3)	0.1	0.1	0.1	5.8
11	0.1	0.1	5.8	0.1
\overline{v}	0.1	5.8	0.1	0.1
(1)	5.9	0.1	0.1	0.1
Q331 (B)	0.1	0.1	5.8	0.1
(C)	1.5	1.9	0	0.8
0333 (B)	3.4	4.4	4.4	4.4
Q334 (B)	4.9	0.1	4.8	4.8
Q335 (B)	0.1	4.8	0.1	0.1

5 8 9 2 3 4 10 11 12 13 14 1 TO Đ BOARĐ Đ-33 - 2 8 4 5 9 7 8 6 5 # | # RV331 Ik R342 R-Y :CHIP 1C302 TĐA8442-N3 12V В 0.2 Q316 25C2412K CHIP 3.5 0382 1.6 ₹ 25C2412K 1000v | CCHIP | C331 | C331 | C331 | C332 | C331 | C332 | C333 | 25C2412K R379 47k : CHIP \$\frac{1}{3\cdot 3} \\ \frac{1}{3\cdot 3} \\ R312 : ## C3802 ## C3805 ## C3805 ## C3805 ## F C5805 ## F C58 R331 R338 TC354 C318 0.00 R339 ₹ 1 C348 C346 220 ₹ 1 0.022 F:CHIP R318 0301 R347 10k 155133 :CHIP R337 R332 770 270 270 9350 1/8w 1/8w MTZ5.6CJ D 155133 0305 ĐTÅ144EK 155133 0306 JC501 TP 3.5 JR385 2.2K 1/8₩ :CHIP 12V R405 ≸ 4.7k ★ :CHIP Đ317 155133 C302 0.22 1007 -: MPS Ð320 155133 ₹2.9 ₹8355 3.3k 0330 25Å1037K R359 25A1U5/K € 1CHIP C1313 C1313 CH 3.9 R360 R361 R360 R361 C25A1U5/K C1313 C4 3.9 £319 155133 ÐL332 9318 155133 L301 4.7#H 12V R305 2.2k :CHIP R398 R398 **₹22k** CHIP R363 **■** 1.8k • CHIP R394 R392 R392 68 CHIP C330 689 1009 820 1338 RH: CHIP R388 1k :CHIP TO 0_BOARD 0-3 SCL SĐA 0309 155133 0303 25C2412K 100K 1CHIP 14 R387 GNÐ C IN YC.SW G 1C303 MC14053BCF 0307 MTZ11CJ ★ VIĐEO IN Y IN 121 GNÐ 9 VIÐED OUT 10 C403 I 25C2412K 3.8 3.9 0301 25C2412K a L303 5.6#H ₹ R406 3.3k :CHIP Н R403 100 :CHIP + C305 3.1 R390 220 220 :CHIP R351 ≱ 220 ≱ :CHIP C1312 1 22p CH: CHIP ₹R1301 4.7k :CHIP B (CHROMA DECODER) L302 a ₹ R412 1.5k :CHIP T C1311 ÷₿ JR390 CHIP R402 1.2k :CHIP 1301 g ÐL401 01301 DTC124EK NOTE | 100 M | TO Đ BOARĐ Đ-32 TO C BOARĐ C-72 B-SS4112<AEP>-B.. - 47 - **— 48 —**

KV-H2511D MDR-IF310/RM-816

10EO PROCESSOR /A CONVERTER IC BUS

NTI PRIDRITY SCART

N SCREEN DISPLAY SW

N SCREEN DISPLAY

AS PICTURE MUTE SW

/C_COMP_SW DLOR_PROCESSOR

H-DELAY BUFFER TBY SW

IĐEO BUFF

ANAL +BLK

IĐEO AMP TSC SW

IĐEO BUFF AMP

AL/NTSC SW ECAM SW UTE

CO AT STBY

ROTECT ROTECT ROTECT

ROTECT ROTECT

ROTECT

ROTECT

ROTECT

ROTECT

ROTECT

ROTECT

ROTECT

ROTECT

ECAM SW

ECAM SW ECAM SW

own by the

Diagram, see

NTSC 4. 43 0.1 5.1 2.8 2.7 7.2 5.6 5.8 0.1 0.1 0.1 0.8 4.4

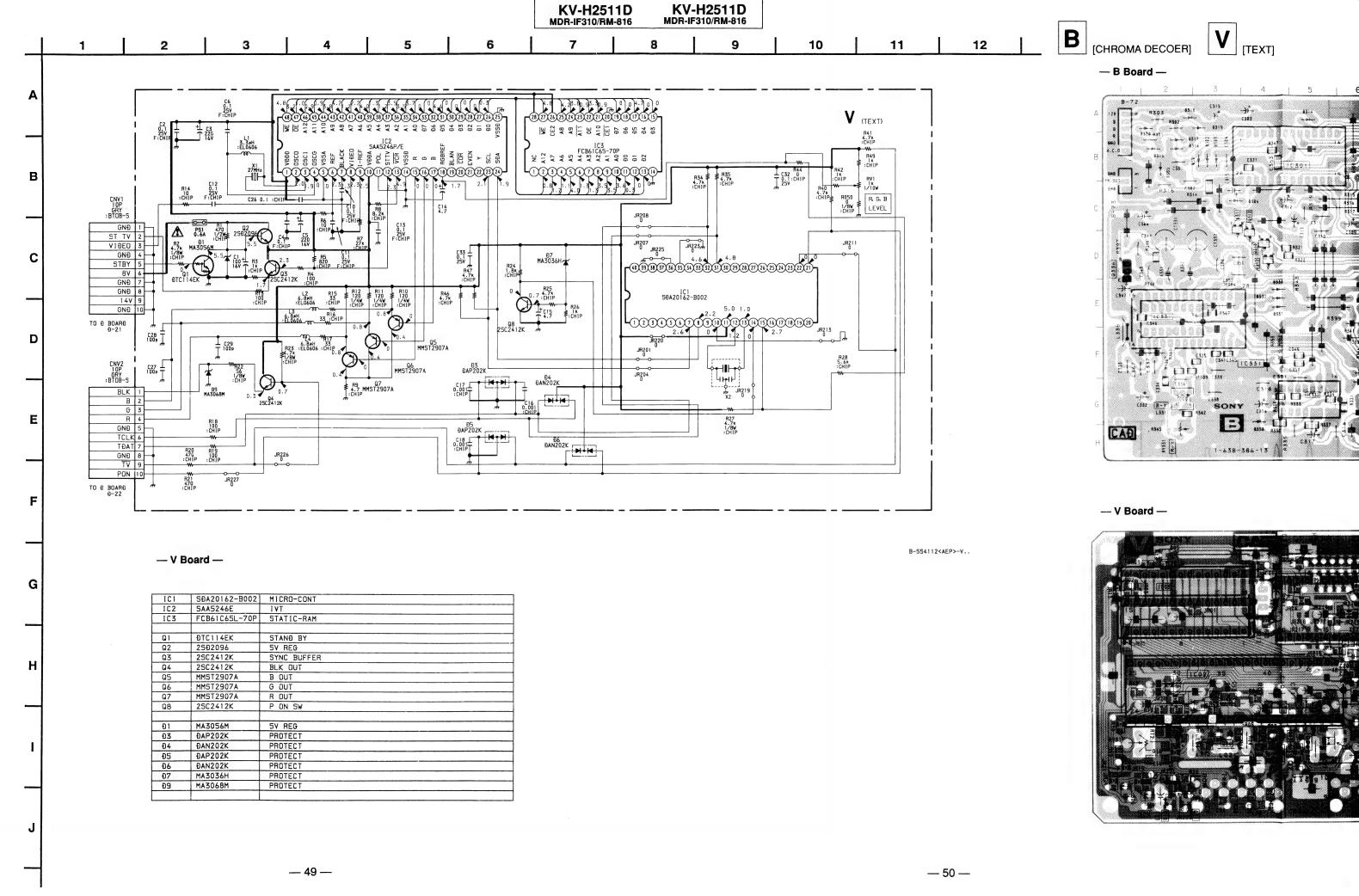
4.8

ROTECT

ECOUPLING BLK

BL BUFF

OUT CO AT STBY KV-H2511D MDR-IF310/RM-816



10

11

12

KV-H2511D MDR-IF310/RM-816

KV-H2511D MDR-IF310/RM-816

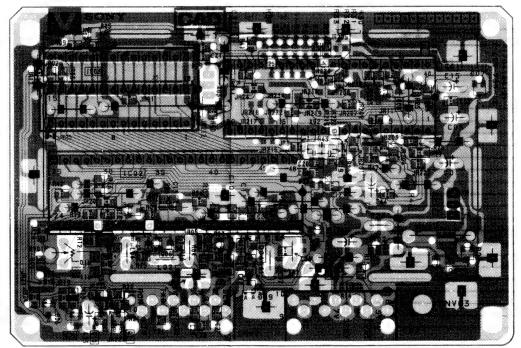
B [CHROMA DECOER] V [TEXT]

- B Board -

E CAN MS (A) 5 6 7 8 9 9 10 11

A TOWN COLUMN COLUM

— V Board —



• Pattern from the side which enables seeing.

- B Board -

IC301

Q301

Q303

Q305

Q306

Q311

Q316

Q330

Q331

Q332

Q333

Q334

Q335 Q381

Q312 D-4

Q313 C-4

Q382 C-8

Q1301 E - 8 Q1306 E - 7

DIODE

D301 B - 3

D302 B - 3

D303

IC

IC302 C - 9

IC303 G-10

IC331 E - 2

IC332 G - 5

TRANSISTOR D314

C - 11

A - 9

G – 9

C - 3

D - 4

G - 10

F – 6 H – 11

G – 9

F - 7

G – 8

D - 10

B-3

D304

D305

D307

D309

D310

D312

D313

D315

D316

D317

D318

D319

D320

D331

C - 3

B-2

B - 9

B - 10

B - 8

A-7

8 – A

A – 5 B – 2

B-2

B-2

A - 2

A - 3

A – 2

E - 4

D332 E – 4

D333 E-4

D350 G – 4

TRIMMER

CT331 D-2

CT332 D-3

VARIABLE

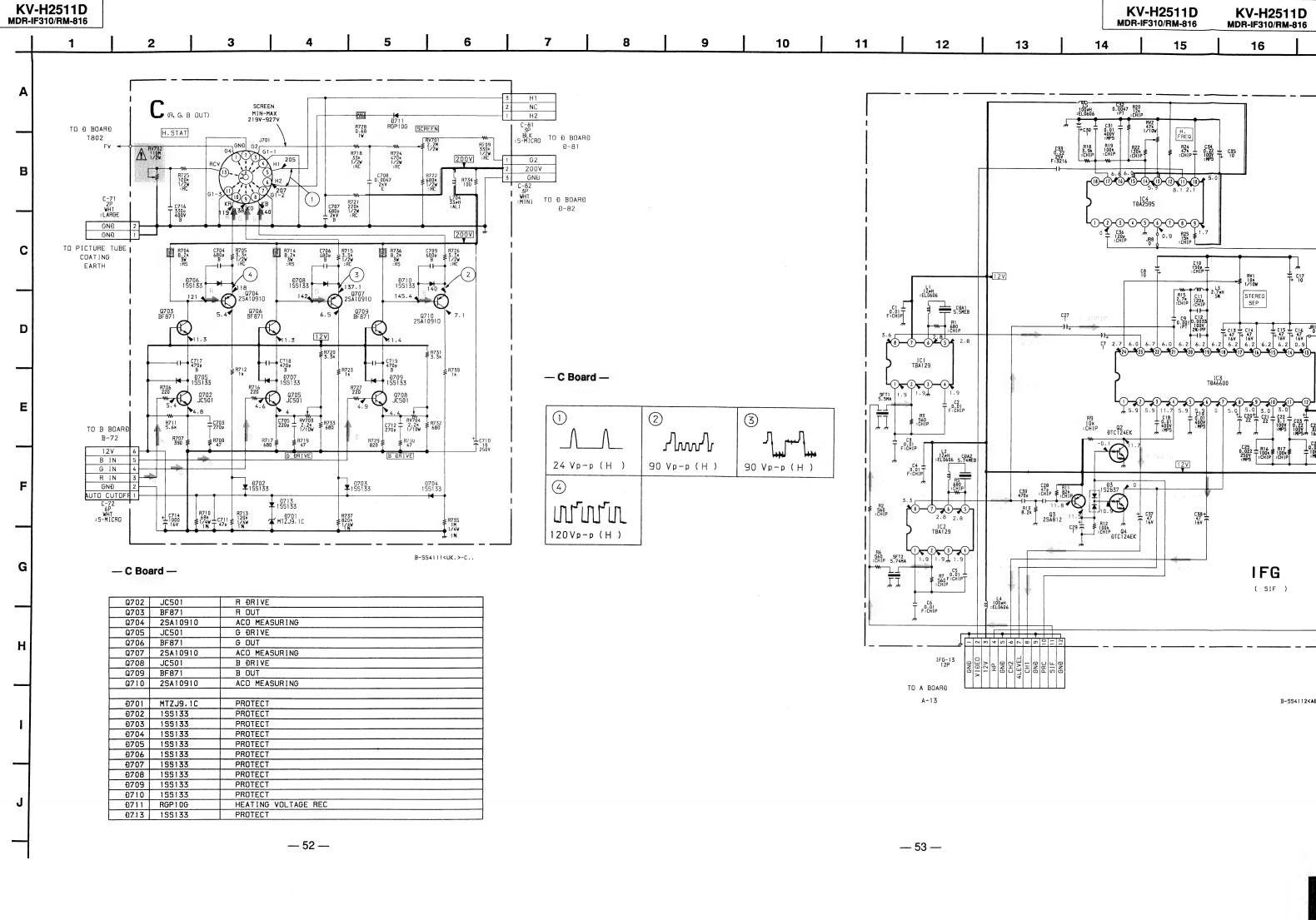
RESISTOR

RV331 H-2

D311 B – 8

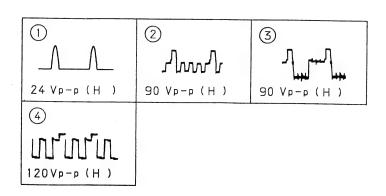
• Eattern of the rear side.

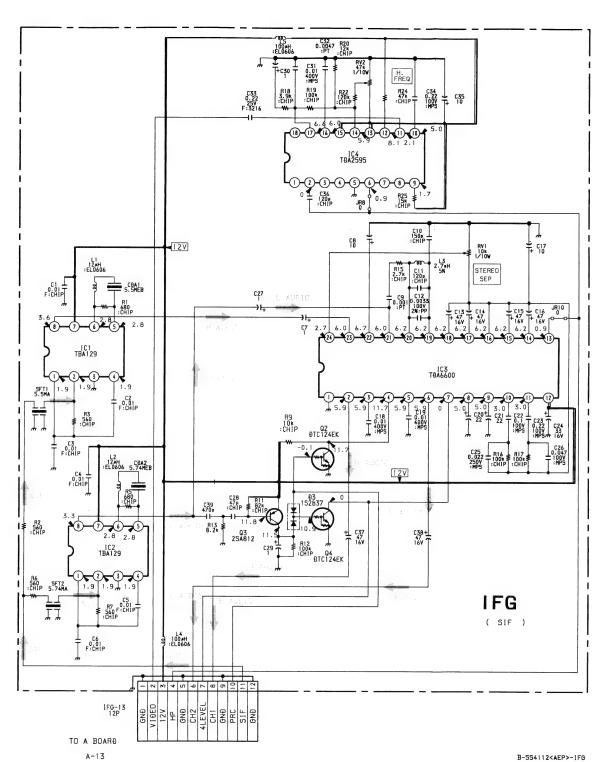
B-SS4112<AEP>-V..





— C Board —



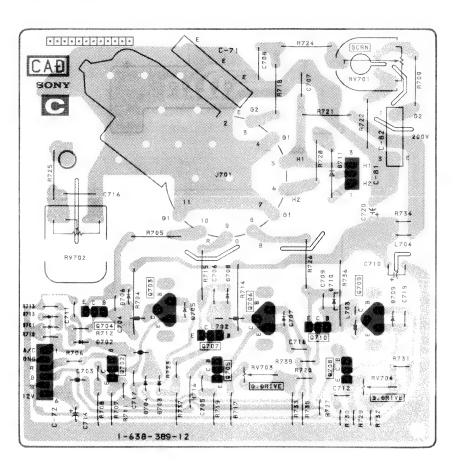


- IFG Board -

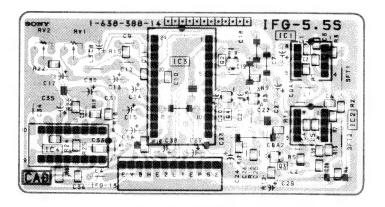
IC1	TBA129	5.5 ĐET
IC2	TBA129	5.74ĐET
103	0099VGT	SIF DET AMP
IC4	TĐA2595	H.FREQ AMP
Q2	ÐTC124EK	SW
Q3	2SA812	SW
Q4	ÐTC124EK	SW
Đ3	152837	SW

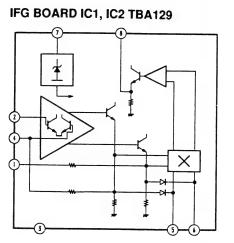


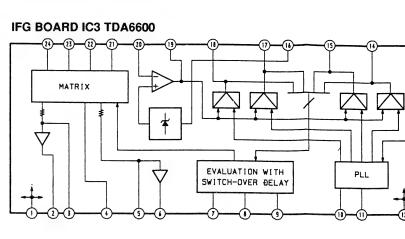
— C Board —



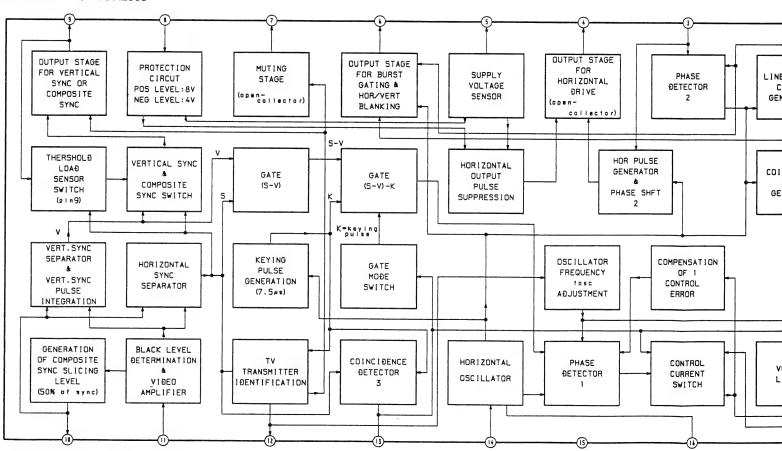
- IFG Board -



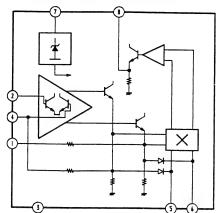


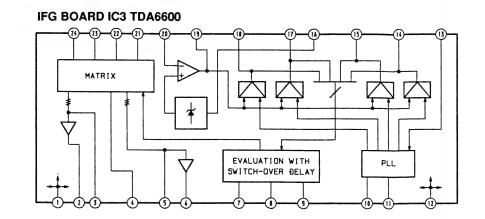


IFG BOARD IC4 TDA2595

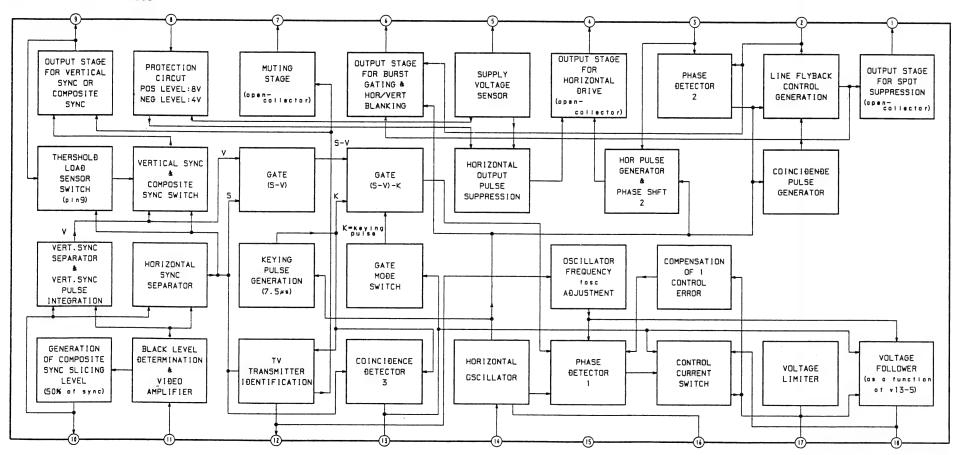


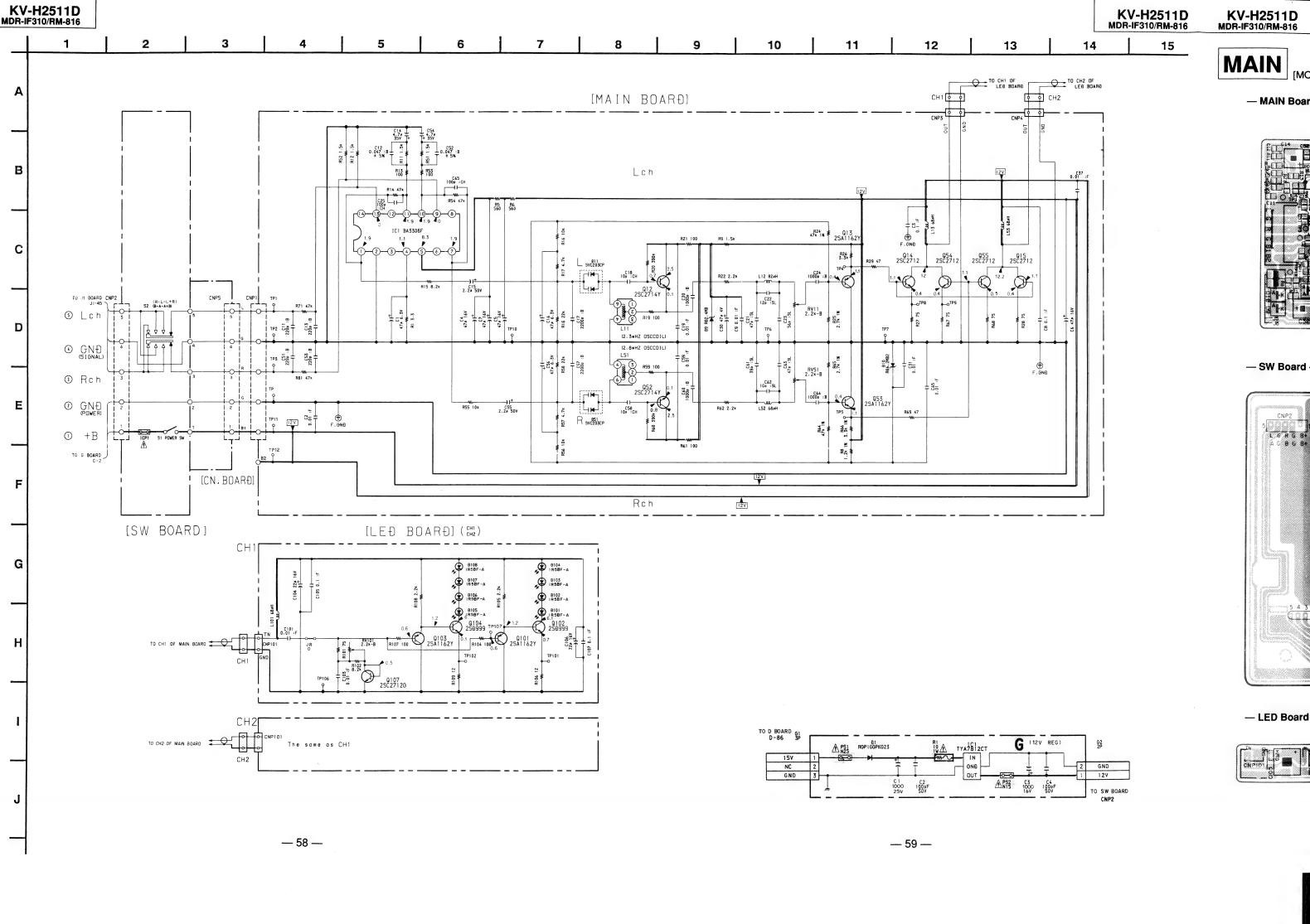
IFG BOARD IC1, IC2 TBA129



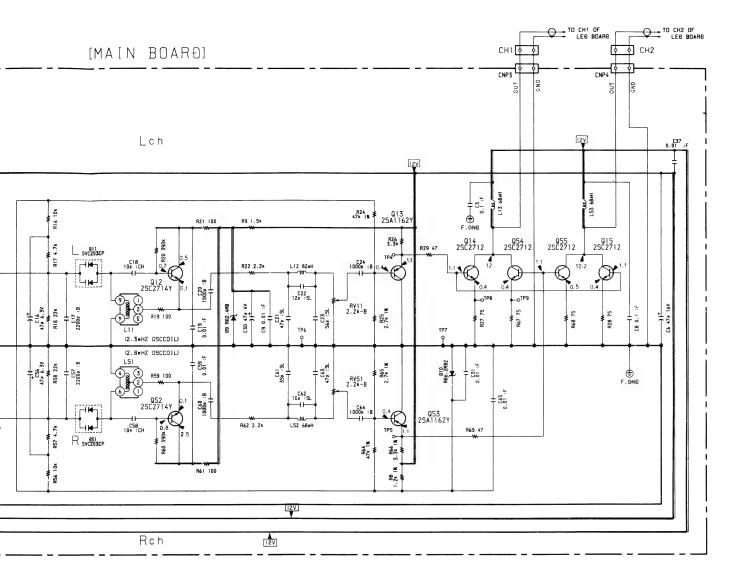


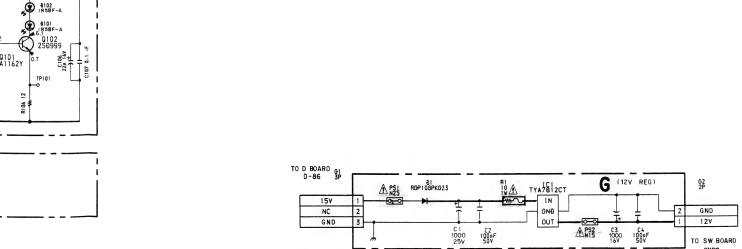
IFG BOARD IC4 TDA2595













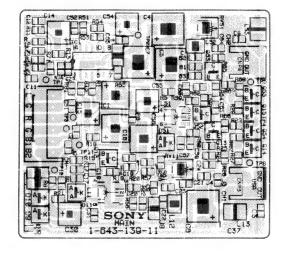




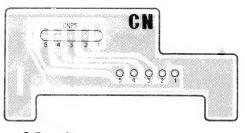




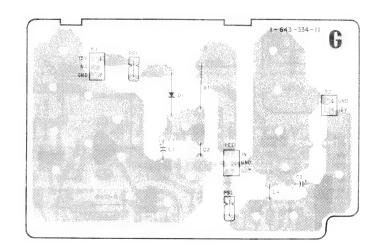
- MAIN Board -



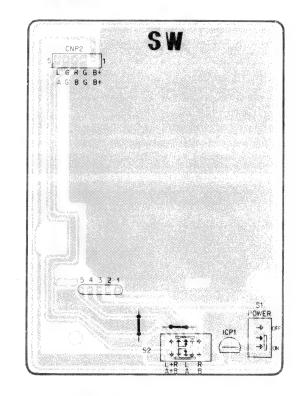
- CN Board -



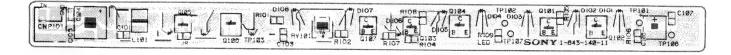
- G Board -



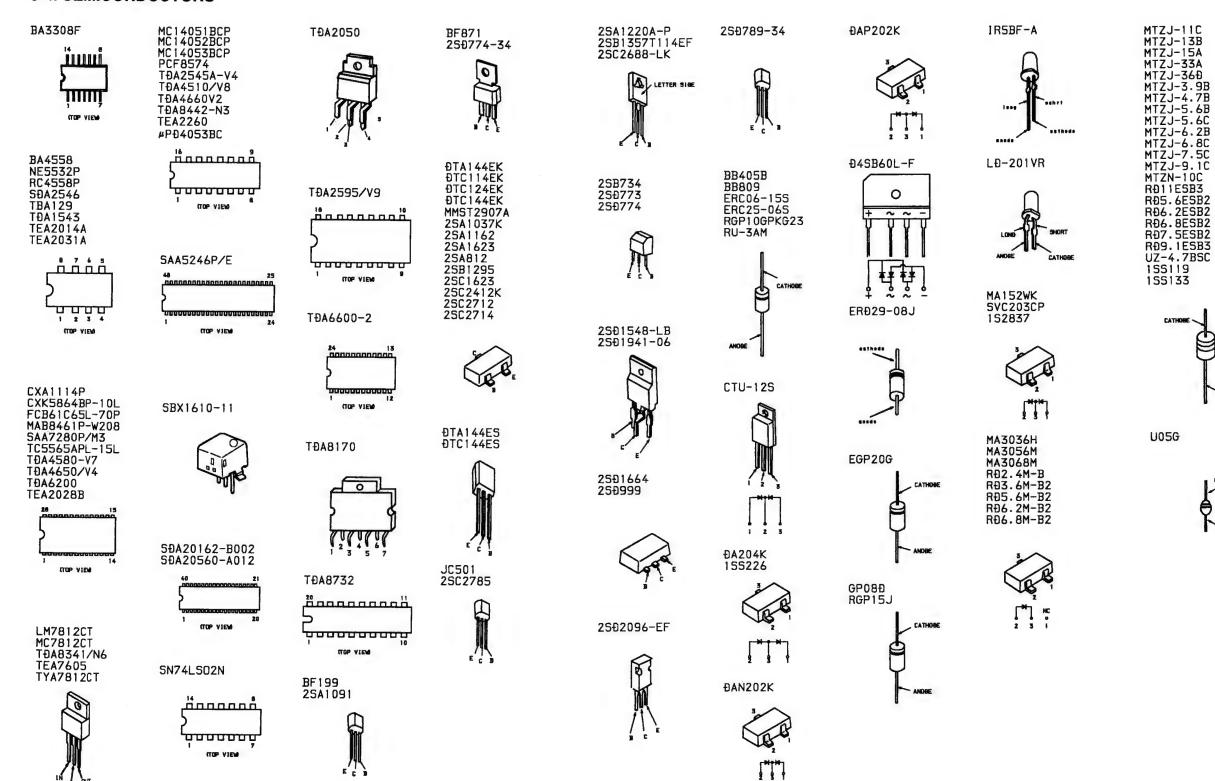
- SW Board -



— LED Board —



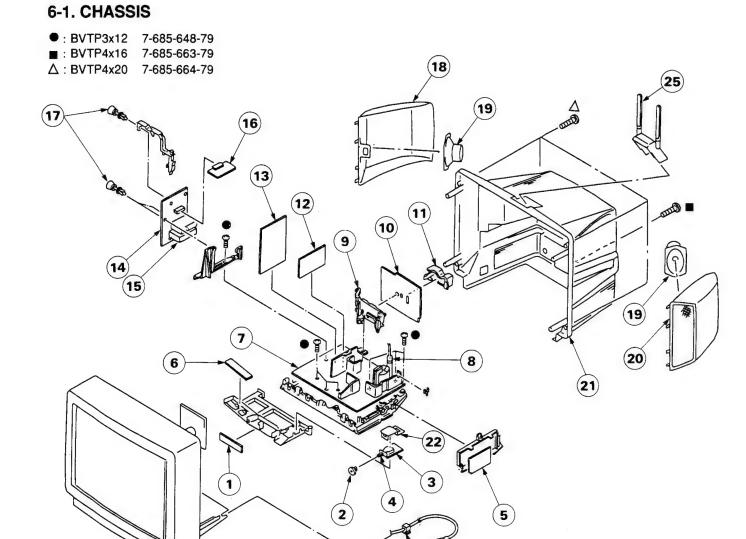
5-4. SEMICONDUCTORS



SECTION 6 EXPLODED VIEWS

- NOTE:
 Items with no part-number and no description are not stocked because they are seldom required for routine servicing.
 The sub-parts required to make a pre-assembled part are indicated by collation numbers in the remark column.
- Items marked "*" are not stocked because they are seldom required for routine servicing. Some delay should be expected when ordering these

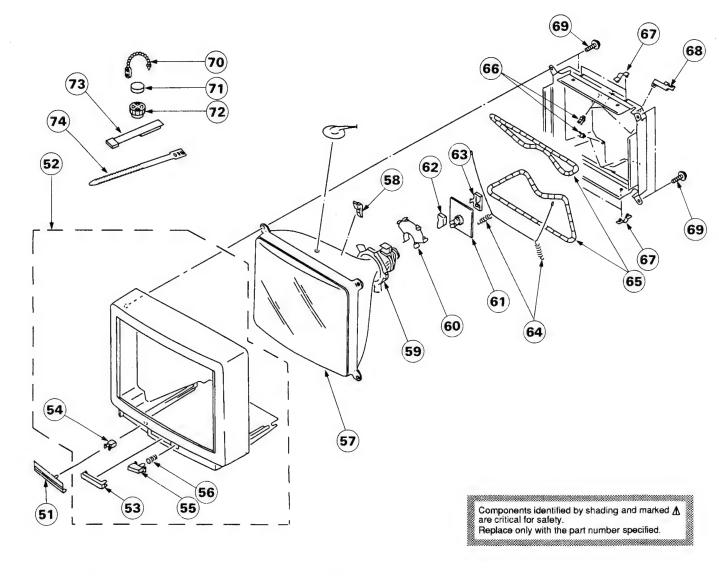
Components identified by shading and marked Δ are critical for safety. Replace only with the part number specified.



REF.NO. PART NO.	DESCRIPTION REM	MARK ¦R	REF.NO	D. PART 'NO.	DESCRIPTION	REMARK
3 *1-638-390-11	COVER, SWITCH F BOARD SWITCH, PUSH (AC POWER) G BOARD		13 14 15 16 17	*A-1632-022-A A. 1-465-301-11 *A-1654-004-A 4-386-618-01	B BOARD, COMPLETE A BOARD, COMPLETE TUNER, ET (UV-816(PLL)) IFG BOARD, COMPLETE RIVET, T TYPE BAFFLE (L) ASSY, BOARD	
7 *A-1642-072-A 8 \(\Lambda \) 1-439-416-51 9 *4-386-624-11	D BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK (UX-1650)		19 20 21 22	1-544-727-11	SPEAKER (7.5X13CM) BAFFLE (R) ASSY, BOARD COVER, REAR	
	BRACKET, TERMINAL V BOARD, COMPLETE	— 63	24 25		HOLDER, AC CORD CORD, POWER (WITH NOISE FILTER) TRANSMITTER TMR-D1003 SET	

23

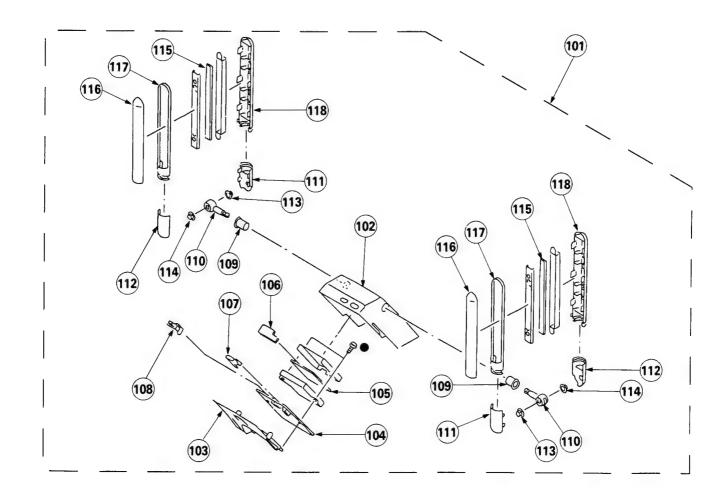
6-2. PICTURE TUBE



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
51 52 53 54 55	4-200-148-01	DOOR CABINET ASSY (WITH BEZEL ASSY) WINDOW, ORNAMENTAL CATCHER, PUSH BUTTON, POWER	53~56	64 4-303-774-99 65 A.1-460-091-11 4-034-296-01	COVER (REAR LID), CV SPRING COIL DEGAUSS HOLDER, DGC HOLDER (D)	
58 59 ∧	8-733-231-05 3-704-495-01	SPRING PICTURE TUBE (A59JWC61X) SPACER, DY DEFLECTION YOKE (Y25FXA) HOLDER, LEAD		69 4-036-188-01 70 4-308-870-00 71 1-452-032-00	HOLDER, LEAD SCREW (M), PT CLIP, LEAD WIRE MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK; 15MM Ø	
		C BOARD, COMPLETE COVER (MAIN), CV			PERMALLOY ASSY, CORRECTION BAND, BINDING	

6-3. TRANSMITTER

●: BVTP3x12 7-685-648-79



REF.NO	D. PART NO.	DESCRIPTION	REMARK	REF.NO	. PART NO.	DESCRIPTION	REMARK
101 102 103 104 105	A-4546-030-A *4-035-887-01 *4-035-888-01 *1-643-141-11 *A-4542-098-A	OVERALL ASSY COVER, MODULATOR BRACKET, MODULATOR SW BOARD MAIN BOARD, COMPLETE	102~118	110 111 112 113 114	4-035-881-01 4-035-883-01 4-035-884-01 4-035-886-01 4-035-885-01	JOINT COVER (A), JOINT COVER (B), JOINT DISK (B) DISK (A)	
106 107 108 109	*1-643-965-11 4-035-878-01 4-035-879-01 4-035-882-01	CN BOARD BUTTON, PUSH BUTTON, SLIDE BEARING		115 116 117 118	*1-643-140-11 4-035-877-01 4-035-876-01 4-035-875-01	LED BOARD COVER, LED FRAME, EMITTER HOLDER, EMITTER	



SECTION 7 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Items marked "*" are not stocked because they are seldom required for routine servicing. Some delay should be expected when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise stated.

When indicating parts by reference number, please include the board name.

CAPACITORS
• MF: μF, PF: μμF

COILS • MMH: mH, UH: μH

RESISTOR	RS
----------	----

- All resistor values are in Ohms
- F: non-flammable

REF.NO	. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
	zeon.	B BOARD, COMPL	ETE ****			C351 C352 C353	1-137-102-11 1-137-102-11 1-163-063-00	FILM 0.022MF FILM 0.022MF CERAMIC CHIP 0.022MF ELECT 47MF CERAMIC CHIP 100PF	10% 10% 10% 20% 5%	250V 250V 50V 50V 50V
B31 B32 B33 B72	*1-565-393-11 *1-565-393-11 *1-565-393-11 *1-568-881-51		ARD TO BOARI ARD TO BOARI ARD TO BOARI A GP))		C358 C359 C360 C364	1-124-917-11 1-163-103-00 1-101-004-00 1-163-105-00	ELECT 33MF CERAMIC CHIP 27PF CERAMIC 0.01MF CERAMIC CHIP 33PF RIECT 47MF		50V 50V 50V 50V 50V
C301 C302 C303 C304 C305		ACITOR> FILM O FILM O ELECT 1 FILM O ELECT 3).22MF).22MF 00MF .22MF 330MF	10% 10% 20% 10% 20%	100V 100V 50V 100V 16V	C366 C367 C381 C382 C384	1-124-910-11	ELECT 4.7MF ELECT 47MF	20% 20% 20% 20%	16V 50V 50V 50V 50V
C306 C307 C308 C309 C310	1-124-902-00 1-124-902-00 1-124-902-00 1-124-902-00 1-137-098-11	ELECT 0 ELECT 0 ELECT 0 ELECT 0).47MF).47MF	20% 20% 20% 20% 10%	50V 50V 50V 50V 100V	C402	1-101-361-00 1-163-197-00	ELECT 4.7MF FILM 0.82MF FILM 0.1MF CERAMIC 150PF CERAMIC CHIP 470PF	5% 5%	50V 63V 100V 50V 50V
C311 C312 C313 C314 C315	1-137-098-11 1-124-902-00 1-124-902-00 1-124-902-00 1-124-903-11	ELECT C ELECT C ELECT C).47MF).47MF).47MF IMF	10% 20% 20% 20% 20%	100V 50V 50V 50V 50V	C1311 C1312 C1313		CERAMIC CHIP 0.01MF CERAMIC CHIP 56PF CERAMIC CHIP 22PF CERAMIC 18PF	5% 5% 5%	50V 50V 50V 50V
C316 C317 C318 C321 C323	1-137-098-11 1-124-910-11 1-137-098-11 1-163-117-00 1-102-947-00	FILM C ELECT 4 FILM C CERAMIC CHIP I CERAMIC 1	10PF	10% 20% 10% 5% 0.5PF	100V 50V 100V 50V 50V	CT331 CT332	1-141-418-11 1-141-418-11 <d10< td=""><td>CAP, ADJ CAP, ADJ</td><td></td><td></td></d10<>	CAP, ADJ CAP, ADJ		
C327 C330 C331 C332 C333	1-137-102-11	FILM (0.022MF	10%	50V 50V 100V 16V 250V	D301 D302 D303 D304 D305		DIODE ISS119 DIODE ISS119 DIODE ISS119 DIODE ISS119		
C334 C335 C336 C337 C338	1-163-237-11 1-163-237-11 1-102-816-00 1-101-004-00 1-137-098-11	CERAMIC CHIP 2 CERAMIC CHIP 2 CERAMIC CERAMIC FILM C	27PF 27PF 120PF 0.01MF 0.1MF	5% 5% 5% 10%	50V 50V 50V 50V 100V	D307	8-719-110-23 8-719-911-19 8-719-110-23 8-719-110-23	DIODE RD11ES-B3		
C339 C341 C343 C344 C345	1-137-098-11 1-163-125-00 1-137-094-11 1-137-033-11 1-163-123-00	CERAMIC CHIP 2	0.047MF 0.33MF	10% 5% 10% 10% 5%	100V 50V 100V 100V 50V	D313 D314 D315 D316 D317	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		
C346 C347 C348 C349 C350	1-163-033-00 1-124-903-11 1-124-903-11 1-163-031-11 1-163-031-11		1MF 1MF 0.01MF	20% 20%	50V 50V 50V 50V 50V	D318 D319 D320 D331	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
D332 D333	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119				R314	1-216-182-00	METAL GLAZE	220	5%	1/8W	
D350	8-719-109-89	DIODE RD5.6ES	5-B2			R315 R316	1-216-031-00	METAL GLAZE METAL GLAZE METAL GLAZE	180	5% 5%	1/10W 1/10W 1/10W	
NI 332	<del< td=""><td>AY LINE></td><td>AV LINE</td><td></td><td></td><td>R318 R319</td><td>1-249-429-11 1-249-409-11</td><td>CARBON</td><td>10K 220</td><td>5% 5% 5%</td><td>1/4W 1/4W</td><td></td></del<>	AY LINE>	AV LINE			R318 R319	1-249-429-11 1-249-409-11	CARBON	10K 220	5% 5% 5%	1/4W 1/4W	
DL401	1-415-613-11	DELAY LINE, Y	AI LINE			R320 R321	1~216~198~00 1~216~057~00	METAL GLAZE METAL GLAZE	1K 2.2K	5% 5%	1/8W 1/10W	
	<1C>					R322 R328 R329	1-216-049-00 1-216-311-00 1-216-311-00	METAL GLAZE	1K 6.8 6.8	5% 5% 5%	1/10W 1/10W 1/10W	
I C301 I C302 I C303	8-759-517-43 8-759-980-60 8-759-140-53	IC TDA4580-V7 IC TDA8442N3 IC UPD4053BC	,			R330 R331	1-216-311-00 1-216-001-00	METAL GLAZE	6.8 10	5% 5% 5%	1/10W 1/10W	
I C331 I C332	8-759-521-22 8-759-505-39	IC TDA4650/V4 IC TDA4660V2	!			R332 R333	1-216-184-00 1-216-121-00 1-216-073-00	METAL GLAZE	270 1M 10K	5% 5% 5%	1/8W 1/10W 1/10W	
	8-719-911-19 8-719-911-19 8-719-911-19 8-719-109-89	L>				R335	1-247-852-11	CARBON	7.5K		1/4W	
L301 L302	1-410-868-11 1-410-868-11	INDUCTOR INDUCTOR	4.7UH 4.7UH			R337 R338	1-216-184-00 1-216-001-00	METAL GLAZE	270 10	5% 5%	1/10W 1/8W 1/10W	
L331 L336	1-404-554-11 1-404-554-11	COIL COIL	5.60#			R339	1-216-033-00 1-216-031-00	METAL GLAZE	220 180	5% 5%	1/10W 1/10W	
L338 L1301	1-408-409-00 1-408-425-00	INDUCTOR INDUCTOR	10UH 220UH			R342 R344 R346	1-216-041-00 1-216-089-00 1-216-202-00	METAL GLAZE	470 47K 1.5K	5% 5% 5%	1/10W 1/10W 1/8W	
L1302	1-408-419-00	INDUCTOR	68UH			R347	1-216-073-00 1-216-089-00	METAL GLAZE	10K 47K	5%	1/10W 1/10W	
Q301	<tra< td=""><td>NSISTOR></td><td>:C1622_[</td><td>E1 6</td><td></td><td>R349 R350</td><td>1-216-045-00 1-216-045-00 1-216-033-00</td><td>METAL GLAZE METAL GLAZE</td><td>680 680</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W</td><td></td></tra<>	NSISTOR>	:C1622_[E1 6		R349 R350	1-216-045-00 1-216-045-00 1-216-033-00	METAL GLAZE METAL GLAZE	680 680	5% 5% 5% 5%	1/10W 1/10W	
0303 0305 0306	8-729-120-28 8-729-901-06	TRANSISTOR 25 TRANSISTOR DT	C1623-L	516		R354	1-216-033-00	METAL GLAZE	220 220		1/10W 1/10W	
Q311	8-729-120-28	TRANSISTOR 25	C1623-L	516		R356 R358	1-216-061-00 1-216-069-00 1-216-033-00	METAL GLAZE METAL GLAZE	3.3K 6.8K 220	5% 5% 5% 5%]/10W 1/10W 1/10W	
Q312 Q313 Q316	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTUR 2S TRANSISTUR 2S TRANSISTUR 2S	C1623-L C1623-L C1623-L	5L6 5L6 5L6		R359 R360	1-216-089-00 1-216-089-00	METAL GLAZE	47K 47K		1/10W 1/10W	
Q330 Q331	**TRA** **TRA** **TRA** **TRA** **TRA** **T29-120-28 **T29-901-06 **T29-119-78 **T29-120-28 **T29-120-28 **T29-120-28 **T29-120-28 **T29-216-22 **T29-216-22 **T29-216-22 **T29-216-22 **T29-120-28 **T29-120-28 **T29-120-28 **T29-120-28	TRANSISTOR 25 TRANSISTOR DT	SA1162-G 'C124EK			R361 R363 R364	1-216-057-00 1-216-055-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 1.8K 2.7K 820 2.7K	5% 5%	1/10W 1/10W 1/10W	
Q332 Q333 Q334	8-729-216-22 8-729-216-22 8-729-120-28	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	A1162-G A1162-G	51.6		R365 R366	1-216-047-00 1-216-059-00	METAL GLAZE METAL GLAZE	820 2.7K	5% 5%	1/10W 1/10W	
Q335 Q381	8-729-120-28 8-729-901-00	TRANSISTOR 25 TRANSISTOR DT	OTOMS D	516		R370	1-216-033-00 1-216-033-00	METAL GLAZE	220 220	5% 5%	1/10W 1/10W	
Q382 Q1301	8-729-120-28 8-729-901-00	TRANSISTOR 2S	'C124EK			R372 R376 R377	1-216-023-00 1-249-429-11 1-216-037-00	METAL GLAZE CARBON METAL GLAZE	82 10K 330	5% 5% 5% 5%	1/10W 1/4W 1/10W	
Q1306	8-729-120-28	TRANSISTOR 25	011023-L	orp.		R378 R379	1-216-097-00 1-216-089-00	METAL GLAZE METAL GLAZE	100K 47K	5% 5%	1/10W 1/10W	
JR385	1-216-206-00	ISTOR> METAL GLAZE	2.2K	5% 1/8W		R380 R381 R382	1-216-071-00 1-216-093-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 68K 220K	5% 5% 5%	1/10W 1/10W 1/10W	
JR390 R301 R302	1-216-295-00 1-249-409-11 1-249-409-11	METAL GLAZE CARBON CARBON	0 220 220	5% 1/10W 5% 1/4W 5% 1/4W 5% 1/4W		R383 R384	1-216-115-00 1-216-029-00	METAL GLAZE METAL GLAZE	560K 150	5% 5%	1/10W 1/10W	
R303 R304	1-249-409-11 1-249-409-11	CARBON CARBON				R385 R387 R388	1-216-085-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	33K 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W	
R305 R307 R308	1-216-057-00 1-216-097-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 100K 0	5% 1/4W 5% 1/10W 5% 1/10W 5% 1/8W 5% 1/10W		R389 R390	1-216-101-00 1-216-033-00	METAL GLAZE	150K		1/10W	
R309 R310	1-216-025-00	METAL GLAZE				R392 R393	1-216-021-00 1-216-021-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 68 68	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R311 R312	1-216-025-00 1-216-025-00 1-249-409-11	METAL GLAZE METAL GLAZE CARBON	100 100 220	5% 1/10W 5% 1/10W 5% 1/4W 5% 1/10W		R394 R395	1-216-021-00 1-216-214-00	METAL GLAZE	68 4.7K	5%	1/10W 1/8W	
R313	1-216-081-00	METAL GLAZE	22K	5% 1/10W		R396	1-216-041-00	METAL GLAZE	470	5%	1/10W	



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R398	METAL GLAZE 22K 5% METAL GLAZE 1.5K 5% METAL GLAZE 1.2K 5% METAL GLAZE 1.00 5% METAL GLAZE 2.7K 5% METAL GLAZE 3.3K 5% METAL GLAZE 820 5% METAL GLAZE 820 5% METAL GLAZE 270 5% METAL GLAZE 1.5K 5% METAL GLAZE 4.7K 5% METAL GLAZE 330 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W		C108 C109 C111 C115 C127 C128 C129 C138 C171 C172 C177	1-136-165-00 1-163-133-00 1-124-925-11 1-124-925-11 1-124-122-11 1-124-910-11 1-136-165-00 1-163-005-11 1-163-005-11 1-102-074-00 1-101-004-00	FILM CERAMIC CHIP BLECT BLECT BLECT BLECT FILM CERAMIC CHIP CERAMIC CHIP CERAMIC CERAMIC	470PF 2.2MF 2.2MF 100MF 47MF 47MF 47MF 47MF	5% 20% 20% 20% 20% 20% 20% 10%	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V
	RES, ADJ, CARBON IK			10103	8-759-979-62 <001				
X331 1-567-307-11	STAL> OSCILLATOR, CRYSTAL OSCILLATOR, CRYSTAL			L100 L101 L102 L107	1-410-683-31 1-408-225-00 1-408-413-00 1-408-397-00	INDUCTOR INDUCTOR INDUCTOR	560UH 3.3UH 22UH 1UH		
	************************	*******	******		<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td></tra<>	NSISTOR>			
*1-638-390-11 *4-341-752-01	******* EYELET			Q113 Q114 Q115 Q116 Q125	8-729-120-28	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR D1	SC1623-L5L6 SC1623-L5L6 SC1623-L5L6		
F61 *1-580-844-11	NECTOR> PIN, CONNECTOR (POWER) PIN, CONNECTOR (POWER)			Q126 Q181		TRANSISTOR DI TRANSISTOR 25			
<fus< td=""><td>E></td><td></td><td></td><td></td><td><res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<></td></fus<>	E>				<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
F1601 A 1-576-231-21	FUSE (H.B.C.) 4A/250V HOLDER, FUSE; F1601			JR252 JR253 JR255	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5%	1/10W 1/8W 1/8W 1/8W 1/8W	
	TCH>			JR257	1-216-296-00	METAL GLAZE	0 5%	1/8W	
**********	SWITCH, PUSH (AC POWER)		******	JR258 R101 R105 R107	1-216-296-00 1-216-025-00 1-216-079-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 100 5% 18K 5% 22K 5%	1/8W 1/10W 1/10W 1/10W	
<com< td=""><td>A BOARD, COMPLETE ***********************************</td><td></td><td></td><td>R108 R110 R111 R116 R118</td><td>1-216-079-00 1-249-429-11 1-216-057-00 1-216-023-00 1-216-085-00</td><td>METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE</td><td>18K 5% 10K 5% 2.2K 5% 82 5% 33K 5%</td><td>1/10W 1/4W 1/10W 1/10W 1/10W</td><td></td></com<>	A BOARD, COMPLETE ***********************************			R108 R110 R111 R116 R118	1-216-079-00 1-249-429-11 1-216-057-00 1-216-023-00 1-216-085-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	18K 5% 10K 5% 2.2K 5% 82 5% 33K 5%	1/10W 1/4W 1/10W 1/10W 1/10W	
A11 *1-565-393-11 A12 *1-565-393-11 A13 *1-565-503-11 A16 *1-560-290-00 A17 *1-564-886-11	CONNECTOR, BOARD TO BOA CONNECTOR, BOARD TO BOA PLUG, CONNECTOR (2.5MM PLUG, CONNECTOR 9P	RD RD 12P		R128 R129 R130 R157 R158	1-216-027-00 1-216-057-00 1-216-057-00 1-216-049-00 1-249-409-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	120 5% 2.2K 5% 2.2K 5% 1K 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/4W	
A19 *1-564-881-11	PLUG, CONNECTOR 4P			R159 R161	1-249-409-11 1-216-089-00	CARBON METAL GLAZE	220 5% 47K 5%	1/4W 1/10W	
C101 1-126-233-11	ACITUR> ELECT 22MF		50V	R162 R163 R164	1-216-089-00 1-216-095-00 1-216-095-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE	82K 5% 82K 5% 12K 5%	1/10W 1/10W 1/10W 1/10W	
C102 1-126-103-11 C104 1-124-910-11 C106 1-126-233-11	ELECT 470MF ELECT 47MF ELECT 22MF	20%	16V 50V 50V	R165 R167	1-216-075-00 1-216-059-00	METAL GLAZE METAL GLAZE	12K 5% 2.7K 5%	1/10W 1/10W	



REF.NO	. PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R168 R169 R181 R182 R193	1-216-089-00 1-216-059-00 1-216-049-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K	5% 1/ 5% 1/ 5% 1/ 5% 1/	/10W /10W /10W /10W /10W		C703 C704	<caf 1-102-980-00 1-102-116-00</caf 	PACITOR> CERAMIC CERAMIC	270PF 680PF	5% 10%	50V 50V
R194 R195 R196	1-216-017-00 1-216-017-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	47 47 470K	5% 1/	/10W /10W /10W		C705 C706 C707	1-102-978-00 1-102-116-00 1-162-116-00	CERAMIC CERAMIC CERAMIC	220PF 680PF 680PF	5% 10% 10%	50V 50V 2KV
	<tun< td=""><td>ER></td><td></td><td></td><td></td><td></td><td>C708 C709</td><td>1-162-114-00 1-102-116-00</td><td>CERAMIC CERAMIC</td><td>0.0047MF 680PF</td><td>10%</td><td>2KV 50V</td></tun<>	ER>					C708 C709	1-162-114-00 1-102-116-00	CERAMIC CERAMIC	0.0047MF 680PF	10%	2KV 50V
T U101		TUNER, ET (UV-	-816 (PL	.L))			C710 C711 C712	1-123-947-00 1-101-880-00 1-102-980-00	ELECT CERAMIC CERAMIC	10MF 47PF 270PF	20% 5% 5%	250V 50V 50V
	<1F	BLOCK>					C714 C716	1-124-360-00 1-162-622-11	ELECT CERAMIC	1000MF 330PF	20% 10%	16V 400V
VIF10	1 1-466-154-11	IF BLOCK (IFG-	-3895)				C717 C718	1-102-114-00 1-102-114-00	CERAMIC CERAMIC	470PF 470PF	10%	50V 50V
****	**********	**********	******	******	***	*******		1-102-114-00	CERAMIC	470PF	10%	50V
	*1-643-334-11	G BOARD						<010	DE>			
C01	1-124-557-11	ACITOR>	1000MF	20%	<u>'</u>	25V	D701 D702 D703 D704	8-719-110-14 8-719-911-19 8-719-911-19 8-719-911-19	DIODE RD9.1E DIODE 1SS119 DIODE 1SS119 DIODE 1SS119			
C02 C03 C04 C07	1-102-973-00 1-124-360-00 1-102-973-00 1-124-557-11	CERAMIC I ELECT I CERAMIC I	100PF 1000MF 100PF 1000MF	5% 20% 5% 20%	3	50V 16V 50V 25V	D705 D706 D707	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119			
	<010	ne>					D708	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119			
D1		DIODE RU-3AM					D710 D711	8-719-911-19 8-719-300-33	DIODE 155119 DIODE RU-3AM			
							D713	8-719-911-19				
CI		NECTOR>						<jac< td=""><td>K></td><td></td><td></td><td></td></jac<>	K>			
G1 G2		PIN, CONNECTOR PIN, CONNECTOR					J701	1-526-990-11	SOCKET, PICT	URE TUBE		
	<1C>							<col< td=""><td>L></td><td></td><td></td><td></td></col<>	L>			
1001	8-759-037-26	IC TYA7812CT					L704	1-408-415-00	INDUCTOR	33ИН		
	<10	LINK>						<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td></tra<>	NSISTOR>			
PS1 A	A. 1-532-637-91 A. 1-532-605-91	LINK, IC 1A LINK, IC 0.4A			i i		Q702 Q703 Q704	8-729-119-78 8-729-906-70 8-729-200-17	TRANSISTOR 2: TRANSISTOR B: TRANSISTOR 2:	F871 SA1091-0		
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td>Q705 Q706</td><td>8-729-119-78 8-729-906-70</td><td>TRANSISTOR 2: TRANSISTOR B</td><td>502785-HFE F871</td><td></td><td></td></res<>	ISTOR>					Q705 Q706	8-729-119-78 8-729-906-70	TRANSISTOR 2: TRANSISTOR B	502785-HFE F871		
R1 2	∆1-213-060-51	FUSIBLE	10	5% 1W		F	0707 0708	8-729-200-17 8-729-119-78	TRANSISTOR 25			
*****		**************************************	ETE.	******	****	******	Q709 Q710	8-729-906-70 8-729-200-17	TRANSISTOR BI	F871		
	*4-37 9-160-01	COVER (REAR LI						<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
	*4-379-167-01	COVER (MAIN),					R704 R705 R706 R707	1-216-486-00 1-202-824-00 1-249-409-11 1-249-412-11	METAL OXIDE SOLID CARBON CARBON	8.2K 5% 3.3K 10% 220 5% 390 5% 47 5%	3W 1/2W 1/4W 1/4W	F
	*1-506-371-00	PIN, CONNECTOR					R708	1-249-401-11	CARBON	47 5%	1/4W	
C72 C81	*1-568-881-51 *1-568-878-51	PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR	6P 3P	PITCH) 3	Р		R709 R710 R711	1-202-844-00 1-215-465-00 1-249-426-11	SOLID METAL CARBON	330K 10% 68K 1% 5.6K 5%	1/2W 1/4W 1/4W	

KV-H2511D MDR-IF310/RM-816



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R712 R713 R714	1-249-417-11 1-215-471-00 1-216-486-00	METAL	1 K 120 K	5%	1/4W 1/4W	F	C027 C030	1-124-910-11 1-163-038-00	CERAMIC CHIP			50V 25V
R715 R716	1-202-824-00 1-249-409-11	SOLID CARBON	3.3K 220	10% 5%	1/2W 1/4W	•	C031 C032 C033	1-163-081-00 1-163-081-00 1-163-181-00		0.22MF 0.22MF	5%	25V 25V 50V
R717 R718 R719	1-249-415-11 1-202-814-11 1-249-401-11	CARBON SOLID CARBON	680 33K	5% 10% 5%	1/4W 1/2W 1/4W		C034 C251	1-124-907-11 1-124-903-11	ELECT ELECT	10MF 1MF	20% 20%	50V 50V
R720 R721	1-249-423-11	CARBON SOLID CARBON CARBON SOLID	3.3K 220K	5% 10%	1/4W 1/2W		C252 C253	1-126-233-11 1-163-009-11 1-137-098-11			20% 10% 10%	50V 50V 100V
R722 R723 R724	1-202-848-00 1-249-417-11 1-202-846-00	SOLID CARBON SOLID SOLID SOLID	680K 1K 470K	10% 5%	1/2W 1/4W 1/2W		C255 C261	1-124-636-00 1-124-903-11	FILM ELECT ELECT	3300MF 1MF	20% 20%	25V 50V
R725 R726	1-202-838-00 1-202-824-00	SOLID SOLID	100K 3.3K	10% 10%	1/2W 1/2W		C262 C263 C264	1-126-233-11 1-163-009-11 1-137-098-11	ELECT CERAMIC CHIP FILM	22MF 0.001MF 0.1MF	20% 10% 10%	50V 50V 100V
R727 R728 R729	1-249-409-11 1-216-347-11 1-249-416-11	CARBON METAL OXIDE CARBON	220 0.68 820	5% 5%	1/4W 1W	F	C265 C270	1-124-564-11 1-137-035-11	ELECT FILM	4700MF 0.47MF	20% 10%	25V 100V
R730 R731	1-249-401-11 1-249-423-11	CARBON CARBON	47 3.3K	5% 5%	1/4W 1/4W		C274 C501 C502	1-137-035-11 1-124-927-11 1-124-927-11	FILM ELECT ELECT	0.47MF 4.7MF 4.7MF	10% 20% 20%	100V 50V 50V
R732 R733 R734	1-249-415-11 1-249-405-11	CARBON CARBON CARBON	680 680 100	5% 5%	1/4W		1 6504	1-163-121-00	CERAMIC CHIP	U. U12Mi	10% 5%	400V 50V
R735 R736		METAL OXIDE	1M 8.2K	1% 5%	1/4W 3W	F	C505 C506 C507	1-108-794-11 1-137-102-11 1-137-033-11 1-137-102-11 1-137-098-11	MYLAR Film Film	0.0015MF 0.022MF 0.33MF	5% 10% 10%	50V 250V 100V
R737 R739	1-249-417-11		1 K	5%	1/4W		C509				10% 10%	250V 100V
DV701	<pre><var 1-230-619-11="" 1-230-641-11="" 230-619-11<="" pre=""></var></pre>	IABLE RESISTOR	?>	70.0	ON		C510 C511 C512	1-161-959-00 1-108-686-11 1-137-098-11	MYLAR FILM	O.IMF	10%	500V 100V 100V
11.4.1.0.2	1-431-149-11	RES, AUJ, CAI	IBUN 42	100	2M 0M		i	1-163-125-00 1-137-031-11	FILM	0.22MF	5% 10%	50V 100V
	**********	RES, ADJ, CAF	*****	****			I CE 10	1-124-903-11 1-108-680-11 1-124-252-00	ELECT MYLAR ELECT ELECT	1MF 0.001MF 0.33MF 0.47MF 0.47MF	20% 10% 20%	50V 100V 50V
	*A-1642-072-A	D BOARD, COMP	LETE				C519	1-124-902-00 1-136-173-00			20% 5%	50V 50V
	4-200-001-01 4-201-023-01 *4-341-751-01	SPACER, INSUL	ATING				C520 C521 C522 C523	1-164-161-11 1-137-098-11 1-124-122-11 1-108-680-11	RILM	0.1MF 100MF 0.001MF 0.0033MF	10% 10% 20% 10%	50V 100V 50V 100V
	*4-341-752-01 *4-368-683-01	EYELET					C524 C525	1-108-798-11	MYLAR CERAMIC CHIP		5%	50V
	<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td><td>C526 C527 C531</td><td>1-163-103-00 1-163-103-00 1-137-098-11 1-124-190-00</td><td>CERAMIC CHIP FILM ELECT</td><td></td><td>5% 5% 10% 10%</td><td>50V 100V 25V</td></cap<>	ACITOR>					C526 C527 C531	1-163-103-00 1-163-103-00 1-137-098-11 1-124-190-00	CERAMIC CHIP FILM ELECT		5% 5% 10% 10%	50V 100V 25V
C002 C003 C004	1-163-205-00 1-124-925-11 1-124-120-11	CERAMIC CHIP ELECT ELECT	0.001M 2.2MF 220MF	IF	5% 20% 20%	50V 50V 16V	C532	1-124-122-11	ELECT FILM	100MF 0.068MF	20% 10%	50V 100V
C005 C008	1-124-903-11 1-163-117-00	ELECT CERAMIC CHIP	1MF		20% 5%	50V 50V	C534 C536 C537	1-124-120-11 1-131-365-00 1-124-903-11	ELECT TANTALUM ELECT	220MF 10MF 1MF	20% 10% 20%	16V 16V 50V
C009 C010 C011	1-163-117-00 1-124-120-11 1-163-031-11	CERAMIC CHIP ELECT CERAMIC CHIP	220MF	,	5% 20%	50V 16V 50V	C538	1-108-680-11 1-163-129-00	MYLAR CERAMIC CHIP	0.001MF	10% 5%	100V 50V
C013 C014	I-137-098-11 I-137-098-11	FILM FILM	0.1MF 0.1MF		10% 10%	100 V 100 V	C540 C592 C593	1-163-009-11 1-124-122-11 1-163-129-00	CERAMIC CHIP ELECT CERAMIC CHIP	100MF	10% 20% 5%	50V 50V 50V
C015 C016 C017	1-124-902-00 1-163-141-00 1-137-098-11	ELECT CERAMIC CHIP FILM	0.1MF		20% 5% 10%	50V 50V 100V	C602 ⚠	. 1-161-964-61 . 1-161-964-61	CERANIC	0.0047MF		250V 250V
C018 C019	1-163-127-00 1-137-094-11	CERAMIC CHIP	0.047	IF.	5% 10%	50V 100V	C604 △ C605	1-161-964-61 1-125-318-11 1-124-484-11	CERAMIC ELECT (BLOCK) ELECT	220MF	20% 20% 5%	250V 400V 35V
C021 C023 C024	1-163-117-00 1-163-117-00 1-163-117-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF		5% 5% 5%	50V 50V 50V	C606 C607	1-163-137-00 1-137-028-11	CERAMIC CHIP	680PF 1MF	5% 10%	50V 63V



REF.NO. PART NO.	DESCRIPTION		REMARK	REF. NO	. PART NO.	DESCRIPTION	REMARK
C608 1-124-927-1 C611 1-124-910-1		20% 20%	50V 50V	D33	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
C612 1-108-680-1 C613 1-136-539-1 C614 1-102-030-0	1 MYLAR 0.001MF 1 FILM 0.0022MI	10%	100V 2KV 500V	D41 D44 D45	*1-566-367-11 *1-568-881-51 *1-568-881-51		
C615 1-128-142-1 C616 1-102-030-0	I ELECT 1500MF	20% 10%	25V 500V	D51 D62	*1-566-367-11 *1-565-395-11	CONNECTOR, HINGE (RECEPTACLE)	
C617 1-124-122-1 C618 1-162-115-0 C619 1-128-320-1	1 ELECT 100MF 0 CERAMIC 330PF	20% 10% 20%	50V 2KV 16V	D65 D66 D82 D83	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 2P PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 2P	
C620 1-136-173-0 C621 1-124-347-0 C622 1-128-320-1	O ELECT 100MF	5% 20% 20%	50 V 160V 16 V	D84	*1-580-798-11	CONNECTOR PIN (DY) 6P PIN, CONNECTOR (5MM PITCH) 3P	
C623 1-124-910-1 C624 1-124-122-1	1 ELECT 47MF	20% 20% 20%	50V 50V	10001			
C625 1-124-360-0 C626 1-124-907-1	I ELECT 10MF	20% 20%	16V 50V	D001		DIODE RD6.8ES-B2	
C627 1-163-009-1 C631 1-124-927-1 C632 1-163-009-1	1 ELECT 4.7MF 1 CERAMIC CHIP 0.001MF	10% 20% 10%	50V 50V 50V	D002 D003 D005 D006	8-719-109-97 8-719-911-19 8-719-109-89 8-719-982-24	DIODE RD6.8ES-B2 DIODE 1SS119 DIODE RD5.6ES-B2 DIODE MTZJ-33A	
C633 1-163-117-0 C801 1-126-105-1 C802 1-102-030-0	I ELECT 1000MF	5% 20% 10%	50V 35V 500V	D007	8-719-982-08 8-719-109-89	DIODE MTZJ-3.9B DIODE RD5.6ES-B2	
C804 1-123-948-0 C805 1-162-114-0		20%	250V 2KV	D010 D011 D012	8-719-921-54 8-719-921-54 8-719-911-19	DIODE MTZJ-6.2B DIODE MTZJ-6.2B DIODE 1SS119	
C806 1-137-098-1 C807 1-106-395-0 C810 1-123-024-2	O MYLAR O.15MF	10% 10%	100V 200V 160V	D013	8-719-109-97	DIODE RD6.8ES-B2	
C811 1-136-113-0 C812 1-124-634-1	O FILM 2MF	5% 20%	200V 250V	D271 D272 D501	8-719-921-88 8-719-911-19 8-719-911-19	DIODE MTZJ-13B DIODE 1SS119 DIODE 1SS119	
C813 1-102-212-0 C814 A 1-161-731-5	I CERAMIC 0.001MF	10% 10%	500V 2KV	D504	8-719-911-55 8-719-800-76	DIODE 1SS226	
C815 1-136-111-0 C817 A 1-136-565-1 C818 A 1-129-721-5	I FILM 0.015MF	5% 3% 10%	200V 1.4KV 630V	D508 D509 D511	8-719-911-19 8-719-911-19 8-719-911-55	DIODE 1SS119 DIODE 1SS119 DIODE UO5G	
C819 A 1-161-731-5 C820 1-137-046-1	I CERAMIC 0.001MF 1 FILM 0.0082MF	10%	2KV 400V	D512	8-719-911-55 8-719-010-34	DIODE U05G DIODE UZ-4.7BSC	
C821 & 1-162-116-5 C822 1-163-005-1 C823 1-137-043-1	CERAMIC 680PF CERAMIC CHIP 470PF	10% 10% 10%	2KV 50V 400V	D601 D602 D603 D604	A.8-719-510-63 8-719-300-33 8-719-911-55 8-719-911-55	DIODE D4SB6OL-F DIODE RU-3AM DIODE UO5G DIODE UO5G	
C824 1-102-212-0 C825 1-137-102-1 C1601 41-136-518-1	I FILM 0.022MF	10% 10%	500V 250V 300V	D605 D606	8-719-911-55	DIODE UOSG	
C1602 A 1-136-519-1 C1603 A 1-164-246-6	1 FILM 0.47MF	20%	300V 400V	D607 D608	8-719-300-33 8-719-300-33 8-719-300-33	DIODE RU-3AM DIODE RU-3AM DIODE RU-3AM	
C1605 A1-164-246-6 C1607 A1-161-964-6	CERAMIC 0.0022MF		400V 250V	D609	8-719-982-24 8-719-300-59	DIODE MTZJ-33A DIODE CTU-12S	
4>	ILTER>			D611 D612 D613	8-719-900-26 8-719-300-59 8-719-979-85	DIODE ERD29-08J DIODE CTU-12S DIODE EGP20G	
CF001 1-577-364-1 CF501 1-567-888-1	I VIBRATOR, CERAMIC I OSCIŁLATOR, CERAMIC			D614	8-719-979-85 8-719-921-54	DIODE EGP20G DIODE MTZJ-6.2B	
	ONNECTOR>			D617 D618 D619	8-719-911-19 8-719-109-89 8-719-982-24	DIODE 1SS119 DIODE RD5.6ES-B2 DIODE MTZJ-33A	
D1 *1-568-881-5 D2 *1-568-882-5	I PIN, CONNECTOR 6P I PIN, CONNECTOR 7P			D620 D621	8-719-800-76 8-719-982-24	DIODE ISS226 DIODE MTZJ-33A	
D11 *1-565-394-1	I PIN, BOARD TO BOARD (I PIN, BOARD TO BOARD (CONNECTOR		D622 D623 D624	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119	
D21 *1-565-394-1	PIN, BOARD TO BOARD (CONNECTOR		D630	8-719-911-19 8-719-921-91	DIODE 1SS119 DIODE MTZJ-15A	
D3I *1-565-394-1	I PIN, BOARD TO BOARD (I PIN, BOARD TO BOARD (I PIN, BOARD TO BOARD (CONNECTOR		D801 D802 D803	8-719-300-33 8-719-300-33 8-719-976-64	DIODE RU-3AM DIODE RU-3AM DIODE RGPO2-17	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
D804 D805 D806 D807	8-719-911-55 8-719-911-55 8-719-945-80 8-719-945-80	DIODE UOSG DIODE UOSG DIODE ERCO6-15S DIODE ERCO6-15S		Q008 Q009 Q010	8-729-120-28 8-729-120-28	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623	-L5L6 -L5L6	
D808	8-719-900-26 <1C>	DIODE ERD29-08J		Q251 Q261 Q271 Q502 Q505	8-729-120-28	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SA1162 TRANSISTOR 2SD774-	-1.51.6	
I COO1 I COO2 I COO3 I COO5 I C251	8-759-047-60 8-759-000-47 8-759-945-58 8-759-748-56 8-759-988-94	IC SDA20560-A012 IC MC14051BCP IC RC4558P IC SDA2546 IC TDA2050		9506 9507 9598 9601	8-729-140-97 8-729-216-22 8-729-216-22	TRANSISTOR 2SB734- TRANSISTOR 2SA1162 TRANSISTOR 2SA1162 TRANSISTOR 2SA1220 TRANSISTOR 2SD1548	34 -G -G	
I C261 I C501 I C502	4-812-134-00 8-759-988-94 4-812-134-00 8-759-970-73 8-759-944-57	RIVET NYLON, 3.5; IC261 IC TEA2028B IC TDA8170		Q603 Q604 Q605 Q606	8-729-122-03 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2SA122C TRANSISTOR 2SA1162 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SD2096	A-P -G -L5L6 -L5L6	
10608	8-759-929-62	1C LM7812CT		1 0609	8-729-120-28 8-729-320-62	TRANSISTOR 2SC1623	-L5L6	
L501 L601	1-408-225-00 1-420-872-00	INDUCTOR 3.3UH COIL, AIR CORE			<res< td=""><td>ISTOR></td><td></td><td></td></res<>	ISTOR>		
L602 L603 L604	1-410-396-41 1-410-396-41 1-410-671-31	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR INDUCTOR 47UH		JR1 JR3	1-216-296-00 1-216-296-00	METAL GLAZE O METAL GLAZE O	5% 5%	1/8W 1/8W
L605 L606	1-459-585-11 1-412-529-11 1-410-671-31	INDUCTOR 3.3UH COIL, AIR CORE FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR INDUCTOR 47UH COIL (WITH CORE) (DRUM TYPE) INDUCTOR 22UH INDUCTOR 47UH COIL, WITH CORE INDUCTOR 4.7MMH COIL, HORIZONTAL LINEARITY COIL, DRAM CORE (CDI) COIL, AIR CORE PMC NSFORMER> LFT LFT LFT S.R.T		JR4 JR7 R001	1-216-295-00 1-216-296-00 1-216-041-00	METAL GLAZE O METAL GLAZE O METAL GLAZE 470	5% 5% 5%	1/10W 1/8W 1/10W
L803 L804	1-459-104-00 1-408-239-00	COIL, WITH CORE INDUCTOR 4.7MMH		R002 R003	1-216-041-00 1-216-198-00	METAL GLAZE 470 METAL GLAZE 1K METAL GLAZE 1K	5% 5%	1/10W 1/8W 1/10W
L805 A L806 L809	1-459-755-12 1-459-111-00 1-420-872-00	COIL, HORIZONTAL LINEARITY COIL, DRAM CORE (CDI) COIL, AIR CORE		R005 R006	1-216-081-00 1-216-073-00	METAL GLAZE 22K METAL GLAZE 10K	5% 5%	1/10W 1/10W 1/10W
L810 A	∆ 1-421-982-12	PMC		R007 R008 R009	1-216-065-00 1-216-073-00 1-216-073-00	METAL GLAZE 4.7K METAL GLAZE 10K METAL GLAZE 10K	5% 5%	1/10W 1/10W 1/10W
LF1601	<tra. 1-421-866-12</tra. 	NSFURMER> LFT		R010 R012	1-216-041-00 1-216-073-00	METAL GLAZE 470 METAL GLAZE 10K	5% 5%	1/10W 1/10W
	2 \(\Lambda 1 - 421 - 776 - 21 \) 3 \(\Lambda 1 - 421 - 862 - 11 \) 4 \(1 - 450 - 038 - 11 \) 4 \(1 - 424 - 277 - 11 \)			R013 R014 R015 R016 R017	1-216-073-00 1-216-085-00 1-216-061-00 1-216-085-00 1-216-689-11	METAL GLAZE 10K METAL GLAZE 33K METAL GLAZE 3.3K METAL GLAZE 33K METAL GLAZE 39K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	1-437-090-21 1-439-416-51	HDT Transformer assy, flyback (UX-1	650)	R018 R019	1-216-095-00 1-216-025-00	METAL GLAZE 82K		1/10W 1/10W
		LINK>		R020 R021 R022	1-216-025-00 1-216-065-00 1-216-065-00	METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
PS601 / PS602 / PS603 / PS604 /	<u>&</u> 1-532-984-91 <u>&</u> 1-532-984-91 <u>&</u> 1-532-679-91 <u>&</u> 1-532-984-91	LINK, IC 2A LINK, IC 0.6A		R024 R025 R026 R027 R028	1-216-073-00 1-216-073-00 1-216-182-00 1-216-025-00 1-216-025-00	METAL GLAZE 10K METAL GLAZE 10K METAL GLAZE 220 METAL GLAZE 100 METAL GLAZE 100	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W
	<tra< td=""><td>NSISTOR></td><td></td><td>R029</td><td>1-216-073-00</td><td>METAL GLAZE 10K</td><td>5% 5%</td><td>1/10W</td></tra<>	NSISTOR>		R029	1-216-073-00	METAL GLAZE 10K	5% 5%	1/10W
Q001 Q002 Q003 Q004 Q005	8-729-901-01 8-729-901-01 8-729-216-22 8-729-216-22	TRANSISTUR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK		R030 R031 R032 R033	1-216-073-00 1-216-081-00 1-216-073-00 1-216-073-00	METAL GLAZE 10K METAL GLAZE 22K METAL GLAZE 10K METAL GLAZE 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
Q006 Q007	8-729-901-01 8-729-120-28	TRANSISTOR DTC144EK TRANSISTOR 2SC1623-L5L6		R034 R035 R036	1-216-077-00 1-216-081-00 1-216-083-00	METAL GLAZE 15K METAL GLAZE 22K METAL GLAZE 27K	5% 5% 5%	1/10W 1/10W 1/10W



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R037 R038	1-216-069-00 1-216-069-00	METAL GLAZE METAL GLAZE	6.8K 6.8K	5% 5%	1/10W 1/10W		R261	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R039 R040 R041	1-216-081-00 1-216-077-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 15K 10K	5% 5% 5%	1/10W 1/10W 1/10W		R262 R263 R264	1-216-039-00 1-216-073-00 1-216-357-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL OXIDE	390 10K 4.7	5% 5% 5%	1/10W 1/10W 1W F
R042 R043 R044	1-216-049-00 1-216-041-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 470 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R265 R266 R267	1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 560K 15K	5% 5%	1/10W 1/10W
R045 R046	1-216-061-00 1-216-095-00	METAL GLAZE	3.3K 82K	5% 5%	1/10W 1/10W		R268 R269 R270	1-215-869-11 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 4.7 K 10 K	5% 5% 5% 5%	1/10W 1W F 1/10W 1/10W
R047 R048 R049	1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R271	1-216-045-00 1-216-073-00	METAL GLAZE METAL GLAZE	680 10K		1/10W 1/10W
R050 R051	1-216-067-00 1-216-041-00	METAL GLAZE	5.6K 470		1/10W 1/10W		R273 R274 R500	1-216-073-00 1-216-073-00 1-216-115-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 560K	5% 5% 5% 5%	1/10W 1/10W 1/10W
R052 R053 R054 R055	1-216-049-00 1-216-049-00 1-216-049-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R501	1-216-041-00	METAL GLAZE	470 220		1/10W 1/10W
RO56 RO57	1-216-073-00	METAL GLAZE	10K		1/10W 1/10W		R503 R504 R505 R506	1-216-035-00 1-249-420-11 1-216-077-00 1-216-071-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE	270 1.8K 15K 8.2K	5% 5% 5% 5%	1/10W 1/4W 1/10W 1/10W
R058 R059 R060	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R509 R510	1-216-063-00 1-216-067-00	METAL GLAZE METAL GLAZE	3.9K 5.6K	5% 5%	1/10W 1/10W 1/10W
R061 R062	1-216-065-00	METAL GLAZE	4.7K	5% 5% 5%	1/10W		R514 R515 R517	1-216-033-00 1-216-061-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 3.3K 10K	5% 5% 5%	1/10W 1/10W 1/10W
R063 R064 R065 R066	1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R518 R519	1-216-089-00 1-216-081-00	METAL GLAZE METAL GLAZE	47K 22K	5% 5%	1/10W 1/10W
R067 R068	1-216-073-00 1-216-174-00	METAL GLAZE METAL GLAZE	10K 100	5% 5%	1/10W 1/10W 1/8W		R520 R521 R522	1-216-037-00 1-216-025-00 1-215-469-00	METAL GLAZE METAL GLAZE METAL	330 100 100K	5% 5% 1%	1/10W 1/10W 1/4W
R069 R070 R071	1-216-174-00 1-216-198-00 1-216-198-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 1K 1K	5% 5% 5%	1/8W 1/8W 1/8W		R523 R524 R525	1-216-049-00 1-216-057-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 2.2K 1K	5% 5% 5%	1/10W 1/10W 1/10W
R072 R073	1-216-222-00 1-216-073-00	METAL GLAZE METAL GLAZE	10K		1/8W 1/10W		R526 R527	1-249-409-11 1-216-077-00	CARBON METAL GLAZE	220 15K	5% 5% 5%	1/4W F 1/10W
R075 R076 R077	1-216-041-00 1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 10K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R528 R529 R530	1-216-031-00 1-216-069-00 1-249-448-11	METAL GLAZE METAL GLAZE CARBON	180 6.8K 1.2	5% 5% 5%	1/10W 1/10W 1/4W F
R078 R079 R080	1-216-198-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 O K 1 O K		1/8W 1/10W 1/10W		R531 R532 R533	1-216-099-00 1-216-049-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	120K 1K	5% 5%	1/10W 1/10W
R081 R083	1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE	10K 1K	5% 5% 5%	1/10W 1/10W		R534 R535 R536	1-216-119-00 1-249-749-00 1-216-129-00	METAL GLAZE CARBON METAL GLAZE	820K 2.2M 2.2M	5% 5% 5% 5% 5%	1/10W 1/10W 1/4W 1/10W
R084 R085 R086	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5%	1/10W 1/10W 1/10W		R537	1-216-083-00	METAL GLAZE	27K 150K		1/10W 1/10W
R087 R088	1-216-035-00 1-216-059-00	METAL GLAZE	270 2.7K	5% 5%	1/10W 1/10W		R539 R540 R541	1-216-101-00 1-216-013-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE	150K 33 56K	5% 5% 5% 5%	1/10W 1/10W 1/10W
R093 R094 R095 R096	1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R542 R543	1-216-308-00	METAL GLAZE	4.7 2.2	5% 5% 5%	1/10W 1/4W
R098	1-216-073-00 1-216-049-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 4.7K		1/10W 1/10W 1/10W		R544 R545 R546 R547	1-247-745-11 1-216-081-00 1-216-083-00 1-216-061-00	CARBON METAL GLAZE METAL GLAZE	330 22K 27K 3.3K	5% 5% 5%	1/2W 1/10W 1/10W
R251 R252 R253 R254 R255	1-216-039-00 1-216-073-00 1-216-357-00	METAL GLAZE METAL GLAZE METAL OXIDE	390 10K 4.7	5%%%% 5%%%% 5%%	1/10W 1/10W	F	R548 R549	1-216-349-00 1-216-454-11	METAL GLAZE METAL OXIDE METAL OXIDE	3.3k 1 390	5% 5%	1/10W 1W F 2W F
R256	1-216-073-00 1-216-115-00	METAL GLAZE METAL GLAZE	10K 560K		1/10W 1/10W		R550 R551 R553	1-216-095-00 1-216-129-00 1-215-869-11	METAL GLAZE METAL GLAZE METAL OXIDE	82K 2.2M 1K	5% 5% 5%	1/10W 1/10W 1W
R257 R258 R259	1-216-077-00 1-215-869-11 1-216-065-00	METAL GLAZE METAL OXIDE METAL GLAZE	15K 1K 4.7K	5% 5% 5%	1/10W 1W 1/10W	F	R554 R555	1-216-037-00 1-216-129-00	METAL GLAZE METAL GLAZE	330 2.2M	5% 5%	1/10W 1/10W



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO. PART NO. DESCRIPTION RE	MARK
R556 R557 R558 R559 R560	1-216-025-00 1-216-065-00 1-216-113-00 1-216-069-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 4.7K 470K 6.8K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R829 1-216-051-00 METAL GLAZE 1.2K 5% 1/10W R831 1-249-451-11 CARBON 2.2 5% 1/4W R1601 △1-246-513-75 CARBON 47K 5% 1/4W R1602 △1-244-945-91 CARBON 1M 5% 1/2W R1603 △1-217-328-11 WIREWOUND 2.7 10% 7W F	
R591 R592 R593 R594 R597	1-216-047-00 1-216-049-00 1-216-053-00 1-216-071-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	820 1K 1.5K 8.2K 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1603 △1-217-328-11 WIREWOUND 2.7 10% 7W F R1604 △1-246-513-75 CARBON 47K 5% 1/4W R1605 △1-218-265-91 METAL GLAZE 8.2M 5% 1/10W R5501 1-216-073-00 METAL GLAZE 10K 5% 1/10W R5503 1-216-308-00 METAL GLAZE 4.7 5% 1/10W R5504 1-216-121-00 METAL GLAZE 1M 5% 1/10W	
R598 R600 R601 R603 R604	1-215-900-11 1-249-381-11 1-216-353-00 1-216-469-11 1-216-025-00	METAL OXIDE CARBON METAL OXIDE METAL OXIDE METAL GLAZE	22K 1 2.2 12 100	5% 5% 5% 5% 5%	2W 1/4W 1W 3W 1/10W		R5505 1-216-001-00 METAL GLAZE 10 5% 1/10W	
R605 R606 R607 R608 R609	1-216-081-00 1-216-051-00 1-216-065-00 1-216-488-11 1-216-007-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	22K 1.2K 4.7K 18K 18	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 3W 1/10W	F	RV502 1-238-016-11 RES, ADJ, CARBON 10K RV601 1-238-011-11 RES, ADJ, CARBON 470 <spark gap=""></spark>	
R610 R611 R612 R613 R614	1-244-941-00 1-216-015-00 1-216-049-00 1-216-097-00 1-205-758-11	CARBON METAL GLAZE METAL GLAZE METAL GLAZE WIREWOUND	680K 39 1K 100K 100	5% 5% 5% 10%	1/2W 1/10W 1/10W 1/10W 1/10W	F	SG801 1-519-422-11 GAP, SPARK <thermistor> THP601 △ 1-808-059-32 THERMISTOR, POSITIVE</thermistor>	
R616 R617 R618 R619 R620	1-216-099-00 1-216-037-00 1-216-431-11 1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE	120K 330 560 10K 22K	5% 5% 5% 5%	1/10W 1/10W 1W 1/10W 1/10W	F	**************************************	****
R621 R622 R623 R624 R625	1-216-077-00 1-216-073-00 1-216-081-00 1-216-067-00 1-215-865-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	15K 10K 22K 5.6K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	F	CAPACITOR> C1 1-126-101-11 ELECT 100MF 20% 16V C2 1-163-038-00 CERAMIC CHIP 0.1MF 25V C3 1-124-120-11 ELECT 220MF 20% 16V	
R626 R628 R629 R631 R633	1-216-037-00 1-216-001-00 1-216-037-00 1-216-465-11 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	330 10 330 27K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 2W 1/10W		C4 1-163-077-00 CERAMIC CHIP 0.1MF 50V 16V 1-124-120-11 ELECT 220MF 20% 16V	
R634 R635 R636 R643 R651	1-216-430-11 1-216-073-00 1-216-073-00 1-217-189-21 1-216-025-00	METAL OXIDE METAL GLAZE METAL GLAZE WIREWOUND METAL GLAZE	390 10K 10K 0.12 100	5% 5% 5% 5%	1W 1/10W 1/10W 2W 1/10W	F F	C12 1-163-038-00 CERAMIC CHIP 0.1MF 25V C13 1-163-038-00 CERAMIC CHIP 0.1MF 25V C14 1-124-927-11 ELECT 4.7MF 20% 50V C15 1-124-927-11 ELECT 4.7MF 20% 50V	
R653 R802 R805 R806 R807	1-205-758-11 1-249-443-11 1-249-448-11 1-216-093-00 1-217-778-11	WIREWOUND CARBON CARBON METAL GLAZE FUSIBLE	100 0.47 1.2 68K 1K	10% 5% 5% 5% 5%	10W 1/4W 1/4W 1/10W 1W	1 1 1	C17 1-163-141-00 CERAMIC CHIP 0.001MF 5% 50V C18 1-163-141-00 CERAMIC CHIP 0.001MF 5% 50V C26 1-163-038-00 CERAMIC CHIP 0.1MF 25V	
R809 R810 R811 R812 R815	1-202-821-11 1-202-818-00 1-215-882-00 1-249-494-11 1-215-884-11	SOLID SOLID METAL OXIDE CARBON METAL OXIDE	1.8K 1K 22 68K 47	10% 10% 5% 5%	1/2W 1/2W 2W 1/2W 2W	F F	C27 1-163-117-00 CERAMIC CHIP 100PF 5% 50V C28 1-163-117-00 CERAMIC CHIP 100PF 5% 50V C29 1-163-117-00 CERAMIC CHIP 100PF 5% 50V C32 1-163-038-00 CERAMIC CHIP 0.1MF 25V C33 1-163-038-00 CERAMIC CHIP 0.1MF 25V	
R816 R817 R820 R821 R822 A	1-215-868-00 1-216-049-00 1-249-403-11 1-247-725-11 1-217-778-61	METAL OXIDE METAL GLAZE CARBON CARBON FUSIBLE	680 1K 68 10K 1K	5% 5% 5% 5%	1W 1/10W 1/4W 1/4W 1W	F Harris	<pre><connector> CNV1 *1-565-393-11 CONNECTOR, BOARD TO BOARD CNV2 *1-565-393-11 CONNECTOR, BOARD TO BOARD</connector></pre>	
R825 R826 R827 R828	1-216-345-11 1-216-097-00 1-216-073-00 1-216-059-00	METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE	0.47 100K 10K 2.7K	5% 5% 5%	1W 1/10W 1/10W 1/10W	F	<pre></pre>	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
D4 D5 D6 D7 D9	8-719-400-18 8-719-914-44 8-719-400-18 8-719-105-52 8-719-106-17	DIODE DAP202N DIODE MA152WN DIODE RD3.6M- DIODE RD6.8M-	({ -B2				R7 R8	1-216-001-00 1-216-083-00 1-216-071-00 1-216-308-00 1-216-214-00 1-218-325-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 27K 8.2K 4.7 4.7K 120		1/10W 1/10W 1/10W 1/10W 1/8W 1/4W	
I C1 I C2 I C3	<1C> 8-759-039-18 8-759-045-54 8-759-510-49	IC SDA20162-F	3002 3/M4A -70P				R11 R12 R13 R14 R15	1-218-325-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120 120 100 10 10 33	5% 5% 5% 5%	1/4W 1/4W 1/10W 1/10W 1/10W	
L1 L2 L3 L4	<pre>-</pre> 1-408-403-00 1-408-407-00 1-408-407-00 1-408-407-00		3.30 6.80 6.80 6.80	H H H			R16 R17 R18 R19 R20	1-216-013-00 1-216-013-00 1-216-025-00 1-216-025-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	33 33 100 100 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
PS1 A		LINK>					R25	1-216-041-00 1-216-168-00 1-216-214-00 1-216-055-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 56 4.7K 1.8K 4.7K		1/10W 1/8W 1/8W 1/10W 1/10W	
Q1 Q2 Q3 Q4	<tra 8-729-900-53 8-729-920-92 8-729-120-28 8-729-120-28</tra 	NSISTOR> TRANSISTOR DI TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	C114EK SD2096- SC1623-	EF L5L6			R26 R27 R28 R34 R35	1-216-049-00 1-216-214-00 1-216-067-00 1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 4.7 K 5.6 K 4.7 K 4.7 K	5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W	
Q5 Q6 Q7 Q8	<pre></pre>	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	5B1295- 5B1295- 5B1295- 5C1623-	UL6 UL6 UL6 UL6 L5L6			R41 R42 R44 R46	1-216-065-00 1-216-049-00 1-216-295-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
		ISTOR>					R49	1-216-049-00	METAL GLAZE METAL GLAZE	4.7K 1K 0	5% 5%	1/10W 1/8W	
JR01 JR02 JR03 JR08 JR09	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RVI	<var 1-238-012-11</var 	IABLE RESISTOR				
JR11 JR14	1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/10W 1/8W		; ; ;		STAL>				
JR17 JR18 JR19	1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/10W 1/8W 1/8W		1 12	1-579-266-31 1-577-364-11	VIBRAIUN, CER	IAMIC			
JR20 JR21 JR23 JR24 JR25	1-216-296-00 1-216-296-00 1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/10W 1/8W 1/8W		1	*1-638-391-11	H1 BOARD	*****	****	****	*****
JR26 JR201 JR204 JR207 JR208	1-216-296-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W		C1651 C1652 C1653 C1655	<pre></pre>	ACITOR> CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	100PF 100PF 0.001MF 0.001MF		10% 10% 10% 10%	50V 50V 50V 50V
JR211 JR213 JR219 JR220 JR223	1-216-295-00 1-216-295-00 1-216-296-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W		H1-02	<con *1-568-881-51 1-568-678-11 *1-568-879-51</con 	NECTOR> PIN, CONNECTO TERMINAL BLOG PIN, CONNECTO	CK, S 31	P		
R1 R3 R4 R5	1-218-326-11 1-216-049-00 1-216-025-00 1-216-047-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1K 100 820	5% 5% 5%	1/2W 1/10W 1/10W 1/10W		H1-05 H1-23	1-562-837-11	JACK PIN, CONNECTO	OR 4P			

KV-H2511D MDR-IF310/RM-816

H1 H2 J1

REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td>C228 C229 C230</td><td>1-137-104-11 1-137-049-11 1-137-049-11</td><td></td><td>0.033MF 0.015MF 0.015MF</td><td>10% 10% 10%</td><td>250V 400V 400V</td></res<>	ISTOR>				C228 C229 C230	1-137-104-11 1-137-049-11 1-137-049-11		0.033MF 0.015MF 0.015MF	10% 10% 10%	250V 400V 400V
R1651 1-249-413-11 R1652 1-249-413-11	CARBON CARBON TCH>	470 470	5% 1/4W 5% 1/4W		C231 C232 C233 C234 C235	1-124-902-00 1-124-907-11 1-163-005-11 1-163-005-11 1-163-005-11	ELECT CERAMIC CHIP	470PF	20% 20% 10% 10% 10%	50V 50V 50V 50V 50V
	SWITCH TACT	II.			1	1-163-005-11			10%	507
\$1651 1-571-532-21 \$1652 1-571-532-21 \$1653 1-571-532-21	SWITCH, TACT SWITCH, TACT	IL IL *******	******	******	C237 C238 C239 C240	1-124-902-00 1-163-125-00 1-126-103-11 1-163-018-00	ELECT CERAMIC CHIP	0.47MF 220PF 470MF	20% 5% 20% 10%	50V 50V 16V 50V
*1-638-392-11	H2 BOARD					1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
*1-638-392-11 *4-374-987-01 *4-381-686-01	GUIDE, LIGHT BRACKET (B),	LIGHT G	JIDE		C242 C243 C244 C245	1-163-033-00 1-163-033-00 1-163-033-00 1-163-033-00	CERAMIC CHIP	0.022MF 0.022MF		50V 50V 50V 50V
\n\10	וחפג				C1401	1-124-907-11 1-126-103-11 1-163-003-11	ELECT	10MF 470MF	20% 20%	50V 16V
*4-381-686-01 <dio *1-568-882-51<="" *4-201-076-01="" 8-719-948-31="" <con="" d1651="" d1652="" d1654="" h2-2="" td=""><td>DIODE LD-201 HOLDER, LED: DIODE LD-201</td><td>VR D1651 VR</td><td></td><td></td><td>C1403 C1404 C1405</td><td>1-163-003-11 1-137-098-11 1-163-029-11</td><td>FILM CERAMIC CHIP</td><td>330PF 0.1MF 0.0047MF</td><td>10% 10%</td><td>50V 100V 50V</td></dio>	DIODE LD-201 HOLDER, LED: DIODE LD-201	VR D1651 VR			C1403 C1404 C1405	1-163-003-11 1-137-098-11 1-163-029-11	FILM CERAMIC CHIP	330PF 0.1MF 0.0047MF	10% 10%	50V 100V 50V
*4-201-076-01 D1654 8-719-948-31	HOLDER, LED; DIODE LD-201	D1652 VR			C1406 C1407	1-137-098-11 1-124-910-11	FILM BLECT	0.1MF 47MF	10% 20%	100V 50V
*4-201-076-01	HOLDER, LED;	D1654	5 % 1/4W		C1408 C1409 C1410	1-124-122-11 1-126-233-11 1-124-907-11	ELECT ELECT ELECT	0.1MF 47MF 100MF 22MF 10MF	20% 20% 20%	50V 50V 50V
<con< td=""><td>INECTOR></td><td></td><td></td><td></td><td>C1411</td><td>1-124-907-11</td><td>ELECT</td><td>10MF</td><td>20% 20%</td><td>50V 50V</td></con<>	INECTOR>				C1411	1-124-907-11	ELECT	10MF	20% 20%	50V 50V
	PIN, CONNECT	OR 7P			C1413 C1414 C1415	1-124-907-11 1-124-910-11 1-124-910-11 1-124-907-11 1-137-098-11	ELECT ELECT FILM	47MF 10MF 0.1MF	20% 20% 10%	50V 50V 100V
IC1651 8-741-101-75		1			C1416	1-137-098-11	FILM	0.1MF	10%	100V
	SISTOR>	. 1			C1417 C1418 C1419	1-124-120-11 1-163-003-11 1-163-003-11 1-124-902-00	CERAMIC CHIP	220MF 330PF 330PF 0.47MF	20% 10% 10% 20%	16V 50V 50V 50V
R1662 1-249-413-11	CARRON	470	5% 1/4W		C1426	1-124-902-00		-	20%	50 V
**********					C1427	1-163-029-11	CERAMIC CHIP	0.0047MF	20%	50V 50V
*A-1651-031-A		IMPLETE			C1429 C1430	1-163-029-11 1-163-003-11	CERAMIC CHIP CERAMIC CHIP	0.0047MF 330PF	10%	50V 50V
∠CAE	ACITOR>				C1431 C1432 C1433	1-126-529-11 1-124-902-00 1-124-122-11	ELECT ELECT ELECT	0.47MF 0.47MF 100MF	20% 20% 20%	50V 50V 50V
C203 1-124-925-11	ELECT	2.2MF	20%	50V	C1436 C1437	1-163-009-11 1-163-009-11	CERAMIC CHIP	0.001MF	10% 10%	50V 50V
C205 1-124-927-11 C206 1-124-925-11	ELECT ELECT	4.7MF 2.2MF	20% 20%	50V 50V	C1438	1-103-009-11	FILM	0.001MF	10%	400V
C207 1-124-927-11 C213 1-126-233-11	ELECT ELECT	4.7MF 22MF	20% 20% 20%	50V 50V	C1439 C1440	1-137-047-11 1-137-047-11 1-124-907-11	FILM ELECT	0.01MF 10MF	10% 20%	400V 50V
C214 1-137-045-11	FILM	0.0068M		400V	C1441 C1442	1-124-907-11 1-124-907-11 1-137-098-11	ELECT FILM	10MF 0.1MF	20% 10%	50V 100V
C217 1-137-045-11 C218 1-137-102-11	FILM FILM	0.0068MI 0.022MF	F 10% 10%	400V 400V 250V	C1443	1-137-098-11	FILM	0.1MF	10%	100V
C219 1-137-102-11 C220 1-108-686-11	FILM MYLAR	0.022MF 0.0033M	10%	250V 100V	C1444 C1445	1-124-910-11 1-102-824-00	ELECT CERAMIC	47MF 470PF	20% 5%	50V 50V
C221 1-108-686-11	MYLAR	0.0033M		100V	C1446 C1501	1-102-824-00 1-124-927-11	CERAMIC ELECT	470PF 4.7MF	5% 20%	50V 50V
C222 1-137-095-11 C223 1-137-095-11	FILM FILM	0.056MF 0.056MF	10%	100V 100V	C1502	1-124-903-11	ELECT	1MF	20%	50V
C224 1-137-047-11 C225 1-136-173-00	FILM FILM	0.01MF 0.47MF	10% 5%	400V 50V	C1503 C1504	1-108-680-11 1-124-910-11	MYLAR ELECT	0.001MF 47MF	10% 20%	100V 50V
C226 1-136-173-00	FILM	0.47MF	5%	50 V	C1505 C1507	1-137-094-11 1-108-686-11	FILM MYLAR	0.047MF 0.0033MF	10% 10%	100V 100V
C227 Î-137-102-11	FILM	0.022MF	10%	250V	1				-	



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
C1508 C1509 C1511	1-124-903-11 1-124-903-11 1-124-927-11 1-137-045-11	ELECT ELECT ELECT			50V 50V		<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td></tra<>	NSISTOR>				
C1513	1-137-045-11 1-163-105-00 1-137-102-11 1-102-117-00	CERAMIC CHIP	33PF	5%	400V 50V 250V 50V	i 41402	8-729-216-22 8-729-120-28	TRANSISTUR 25	SC1623-1 SA1162-0 SC1623-1	Լ5Լ6 G L5Լ6		
01313	1 102-117-00						8-729-120-28 8-729-216-22					
0001	<010	DE>	<i>4</i>			11101	0 127 210 22		,n1102 ·	u		
D201 D202 D205	8-719-110-14 8-719-110-14 8-719-110-03	DIODE RD9.1E DIODE RD9.1E	S-B3 S-B3 S-B2			0201	<res 1-216-079-00</res 	ISTOR>	100	E%	1/100	
D206	8-719-110-03 8-719-110-03	DIODE RD7.5E DIODE RD7.5E	S-B2 S-B2			R202 R203	1-216-206-00 1-216-075-00	METAL GLAZE METAL GLAZE	18K 2.2K 12K 33K 33K	5% 5%	1/10W 1/8W 1/10W	
D1403 D1404	8-719-110-03 8-719-110-03	DIODE RD7.5E	S-B2			R204 R205	1-216-085-00 1-216-085-00	METAL GLAZE METAL GLAZE	33K 33K	5% 5%	1/10W 1/10W	
D1405 D1406	8-719-110-03 8-719-110-03 8-719-921-77	DIODE RD7.5E DIODE RD7.5E DIODE RD7.5E DIODE MTZN-1	S-B2 S-B2			R206 R207 R208	1-216-061-00 1-216-061-00 1-216-077-00	METAL GLAZE	3.3K 3.3K 15K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
D1409	8-719-110-14 8-719-110-14	DIODE RD9.1E	S-B3 S-B3			R210	1-216-081-00 1-216-077-00		15K		1/10W	
D1415 D1418	8-719-110-14 8-719-110-03 8-719-110-03	DIODE RD9.1E DIODE RD7.5E DIODE RD7.5E	S-B3 S-B2 S-B2			R211 R212 R213 R214	1-216-097-00 1-216-081-00 1-216-077-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 22K 15K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
D1420	8-719-110-03 8-719-110-03 8-719-110-03	DIODE RD7.5E	S-B2 S-B2 S-B2			R215	1-216-081-00	METAL GLAZE			1/10W	
D1422	8-719-110-03 8-719-110-03	DIODE RD7.5E DIODE RD7.5E	S-B2 S-B2 S-B2			R217 R218	1-216-081-00 1-216-077-00 1-216-033-00	METAL GLAZE	22K 15K 220	5% 5% 5%	1/10W 1/10W 1/10W	
D1424	8-719-110-03	DIODE RD7.5E	S-B2			R219 R220	1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE	10K 2.2K	5% 5% 5%	1/10W 1/10W	
D1426	8-719-110-03 8-719-110-03 8-719-300-33	DIODE RD7.5E DIODE RU-3AM	S-82 S-82			R221	1-216-041-00 1-216-041-00	METAL GLAZE METAL GLAZE	470 470	5% 5%	1/10W 1/10W	
	8-719-911-19	DIODE 155119				R223 R224	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5% 5%	1/10W 1/10W	
D1504 D1505	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119				R226	1-216-049-00 1-216-049-00	METAL GLAZE	1 K 1 K		1/10W 1/10W	
D1506	8-719-982-33 8-719-911-19	DIOUR WILD-3	bν			R227	1-216-033-00	METAL GLAZE METAL GLAZE	220 220	5% 5% 5%	1/10W 1/10W	
D1510	8-719-911-19	DIODE 188119				R229 R230	1-216-075-00 1-216-079-00	METAL GLAZE METAL GLAZE	12K 18K	5% 5%	1/10W 1/10W	
	<1C>					R232	1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W	
	8-759-013-17 8-752-053-17					R233 R234	1-216-057-00 1-216-057-00	METAL GLAZE	2.2K 2.2K	5% 5% 5% 5%	1/10W 1/10W	
1C1402	8-759-946-32 8-759-140-53	IC TEA2014A				R235 R236	1-216-295-00 1-216-295-00	METAL GLAZE	0		1/10W 1/10W	
IC1501	8-759-942-16	IC TEA2031A				R240 R241	1-216-033-00 1-216-091-00	METAL GLAZE METAL GLAZE	220 56K	5% 5% 5%	1/10W 1/10W	
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td>R242 R243</td><td>1-216-091-00 1-216-075-00</td><td>METAL GLAZE METAL GLAZE</td><td>56K 12K</td><td>5% 5% 5%</td><td>1/10W 1/10W</td><td></td></con<>	NECTOR>				R242 R243	1-216-091-00 1-216-075-00	METAL GLAZE METAL GLAZE	56K 12K	5% 5% 5%	1/10W 1/10W	
J45 *	1-565-838-11 1-568-878-51	PIN. CONNECT	OR 3P			R244 R245	1-216-067-00 1-216-075-00	METAL GLAZE METAL GLAZE	5.6K 12K	5% 5%	1/10W 1/10W	
J1-43 *	1-566-641-11 1-564-524-11 1-564-527-11	PLUG, CONNEC	TOR 9P	18P		R246 R247 R248	1-216-067-00 1-216-075-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 12K	5% 5% 5%	1/10W 1/10W 1/10W	
	1-566-641-11			18P		R249	1-216-075-00	METAL GLAZE	12K		1/10W	
	<jac< td=""><td>K></td><td></td><td></td><td></td><td>R250 R1400 R1401</td><td>1-216-067-00 1-216-295-00</td><td>METAL GLAZE</td><td>5.6K</td><td>5% 5% 5%</td><td>I/10W I/10W</td><td></td></jac<>	K>				R250 R1400 R1401	1-216-067-00 1-216-295-00	METAL GLAZE	5.6K	5% 5% 5%	I/10W I/10W	
J1402	1-561-534-41	SOCKET 21P				R1402	1-216-023-00 1-216-170-00	METAL GLAZE METAL GLAZE	82 68	5%	1/10W 1/8W	
J1403	1-561-534-41	SOCKET 21P					1-216-089-00 1-216-178-00	METAL GLAZE METAL GLAZE	47K 150	5% 5%	1/10W 1/8W	

KV-H2511D MDR-IF310/RM-816

J1 IFG

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R1405 R1407 R1408 R1409 R1410	1-249-434-11 1-216-113-00 1-216-089-00 1-216-041-00 1-216-089-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 470K 47K 470 47K	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W		R1482	1-216-190-00 1-216-178-00 1-216-178-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5%	1/8W 1/8W 1/8W 1/10W 1/10W	
R1412 R1413 R1414 R1415	1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 47K 470K 47K 27K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1487 R1488 R1489	1-216-178-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-065-00 1-216-065-00 1-216-081-00 1-216-083-00 1-216-113-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 4.7K 4.7K 4.7K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1417 R1418 R1419 R1420	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	82 82 0 0	5% 5%	1/10W		R1505 R1506	1-216-081-00 1-216-113-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE	27K 470K 33K 22K 470K 220K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
R1422 R1423 R1424 R1425	1-216-025-00 1-216-083-00 1-216-083-00 1-216-045-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 100 27K 27K 680	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R1510 R1511 R1512 R1513 R1514	1-216-067-00 1-216-049-00 1-216-073-00 1-216-091-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1428 R1429 R1430 R1431	1-216-113-00 1-216-113-00 1-216-170-00 1-216-041-00		100 10 470K 470K 68 470 470	5% 5% 5%	1/10W 1/10W 1/8W		R1516 R1517 R1519 R1520	1-216-117-00 1-216-079-00 1-216-033-00 1-216-101-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680K 18K 220 150K 470K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1433 R1434	1-216-033-00 1-249-393-11 1-249-434-11 1-216-045-00	METAL GLAZE CARBON CARBON	220 10 27K 680 680	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/4W 1/4W			1-216-214-00 1-216-067-00				1/8W 1/10W	
R1442 R1443 R1444 R1445	1-216-089-00 1-216-089-00 1-216-033-00 1-216-095-00	METAL GLAZE METAL GLAZE	47K 47K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W		RV1501 RV1502 RV1503 RV1504 RV1505	<pre><var 1-238-016-11="" 1-238-017-11="" 1-238-017-11<="" 1-238-023-11="" pre=""></var></pre>	RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI	RBON 470 RBON 104 RBON 224 RBON 1K RBON 470)K (()K		
R1447 R1448 R1449 R1452 R1453	1-216-033-00 1-216-025-00 1-216-023-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 100 82 1K 1K	5% 5%	1/10W 1/10W 1/10W		RV1506 RV1507 RV1508 RV1509	1-238-017-11 1-238-012-11 1-238-023-11 1-238-017-11 1-238-009-11 1-238-016-11 1-238-023-11	RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI	RBON 221 RBON 220 RBON 101 RBON 470	() ()K :****	******	*****
R1454 R1455 R1457 R1459 R1460	1-216-180-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180 180 100 100 1.5K	5% 5%	1/8W 1/8W 1/10W 1/10W 1/10W			*A-1654-004-A		OMPLETE			
R1461 R1462 R1463 R1464	1-216-190-00 1-216-057-00 1-216-049-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 2.2K 1K 3.3K	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W		C1 C2 C3 C4	1-163-031-11 1-163-031-11 1-163-031-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF 0.01MF			50V 50V 50V 50V
R1465 R1466 R1467 R1468	1-216-023-00 1-216-033-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82 220 100 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C5 C6 C7 C8 C9	1-163-031-11 1-163-031-11 1-124-903-11 1-124-907-11 1-130-471-00	CERAMIC CHIP CERAMIC CHIP ELECT ELECT MYLAR		ì	20% 20% 5%	50V 50V 50V 50V
R1470 R1471 R1472 R1473	1-216-025-00 1-216-023-00 1-216-023-00 1-216-023-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 82 82 82 82 470K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W		C10 C11 C12 C13 C14	1-163-121-00 1-163-119-00 1-136-298-00 1-124-477-11 1-124-477-11	CERAMIC CHIP CERAMIC CHIP FILM ELECT ELECT	150PF		5% 5% 5% 2% 20% 20%	50V 50V 100V 16V 16V
R1476 R1477 R1478	1-216-089-00 1-216-089-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 47K 470K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C15	1-124-477-11	ELECT	47MF 47MF		20%	16V 16V

IFG MAIN

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C17 C18 C19	1-124-907-11 1-137-047-11 1-137-047-11	ELECT FILM FILM	10MF 0.01MF 0.01MF	20% 10% 10%	50V 400V 400V	R2 R3	1-216-043-00 1-216-043-00	METAL GLAZE METAL GLAZE	560 5% 560 5%	1/10W 1/10W	
C20 C21	1-126-233-11 1-126-233-11	ELECT ELECT	22MF 22MF	20% 20%	50V 50V	R5 R6 R7	1-216-045-00 1-216-043-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE	680 5% 560 5% 560 5%	1/10W 1/10W 1/10W	*
C22 C23 C24	1-137-098-11 1-137-031-11 1-124-034-51	FILM FILM ELECT	0.1MF 0.22MF 33MF	10% 10% 20%	100V 100V 16V	R9 R11	1-216-073-00 1-216-095-00	METAL GLAZE METAL GLAZE	10K 5% 82K 5%	1/10W 1/10W	
C25 C26 C27	1-137-102-11 1-137-094-11 1-124-903-11	FILM FILM ELECT	0.022MF 0.047MF 1MF	10% 10% 20%	250V 100V 50V	R12 R13 R15 R16	1-216-097-00 1-216-071-00 1-216-059-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 5% 8.2K 5% 2.7K 5% 100K 5% 100K 5%	1/10W 1/10W 1/10W 1/10W	
C28 C29 C30	1-163-109-00 1-124-903-11 1-124-903-11	CERAMIC CHIP ELECT ELECT	47PF 1MF 1MF	5% 20% 20%	50V 50V 50V	R17	1-216-097-00 1-216-063-00	METAL GLAZE	3.9K 5%	1/10W 1/10W	
C31 C32 C33	1-137-047-11 1-130-479-00 1-163-081-00	FILM MYLAR CERAMIC CHIP	0.01MF 0.0047MF 0.22MF	10% 5%	400V 50V 25V	R19 R20 R22 R24	1-216-097-00 1-216-075-00 1-216-099-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 5% 12K 5% 120K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W	
C34 C35 C36	1-137-031-11 1-124-907-11 1-163-119-00	FILM ELECT CERAMIC CHIP	0.22MF 10MF	10% 20% 5%	100V 50V 50V	R25	1-216-077-00		15K 5%	1/10W	
C37 C38	1-124-477-11 1-124-477-11	ELECT ELECT	47MF 47MF	20% 20%	16V 16V			IABLE RESISTOR			
C39		CERAMIC CHIP	470PF	5%	50 V	RV1 RV2	1-238-016-11 1-238-019-11	RES, ADJ, CARI	BON 10K BON 47K		
CDAT	<fil< td=""><td></td><td>D. GDD LIVE</td><td></td><td></td><td>i</td><td>**********</td><td></td><td></td><td>*******</td><td>*******</td></fil<>		D. GDD LIVE			i	**********			*******	*******
CDA1 CDA2 SFT1 SFT2	1-404-751-11 1-404-750-11 1-527-840-00 1-527-839-00	DISCRIMINATO DISCRIMINATO FILTER, CERA FILTER, CERA	R, CERAMIC MIC				*A-4542-098-A	MAIN BUARD, CI			
	1 321 037 00	Thin, com					<cap.< td=""><td>ACITOR></td><td></td><td></td><td></td></cap.<>	ACITOR>			
	<dio< td=""><td></td><td></td><td></td><td></td><td>C1 C2</td><td>1-126-205-11 1-163-031-11</td><td>CERAMIC CHIP (</td><td>47MF 0.01MF</td><td>20%</td><td>6.3V 50V</td></dio<>					C1 C2	1-126-205-11 1-163-031-11	CERAMIC CHIP (47MF 0.01MF	20%	6.3V 50V
D3	8-719-400-18		K			C3 C4 C5	1-163-038-00 1-126-204-11 1-126-204-11		0.1MF 47MF 47MF	20% 20%	25V 16V 16V
I C I	<1C> 8-759-003-90	IC TBA129				C6	1-126-204-11		47MF	20%	16V
I C2 I C3 I C4	8-759-003-90 8-759-003-90 8-759-030-48 8-759-513-48	IC TBA129 IC TBA129 IC TDA6600-2 IC TDA2595/V				C7 C8 C9 C11	1-126-204-11 1-163-038-00 1-163-031-11 1-163-001-11	CERAMIC CHIP (CERAMIC CHIP (CERAMIC CHIP (0.01MF	20% 10%	16V 25V 50V 50V
	< CUN	NECTOR>				C12 C13	1-163-809-11 1-163-001-11	CERAMIC CHIP (CERAMIC CHIP)		5% 10%	25 V 50 V
IFG13	*1-565-488-11		OARD TO BOAR	D 12P		C14 C15 C16	1-126-603-11 1-126-601-11 1-126-205-11	ELECT CHIP	4.7MF 2.2MF 47MF	20% 20% 20%	35V 50V 6.3V
	<01	L>				C17	1-164-161-11 1-163-227-11	CERAMIC CHIP (CERAMIC CHIP	0.0022MF 10PF	10% 5%	50V 50V
L1 L2 L3 L4	1-408-410-00 1-408-410-00 1-410-064-11 1-408-421-00	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	12UH 12UH 2.7MMH 100UH			C19 C20 C21	1-163-031-11 1-163-009-11 1-163-109-00	CERAMIC CHIP (CERAMIC CHIP (CERAMIC CHIP (0.01MF 0.001MF	10% 5%	50V 50V 50V
ĽŠ	1-408-421-00	INDUCTOR	1000H			C22 C23	1-163-095-00 1-163-111-00	CERAMIC CHIP	56PF	5% 5%	50V 50V
		NSISTOR>				C24 C25 C30	1-163-009-11 1-163-251-11 1-126-607-11	CERAMIC CHIP (CERAMIC CHIP : ELECT CHIP :	100PF 47MF	10% 5% 20%	50V 50V 4V
Q2 Q3 Q4	8-729-901-00 8-729-216-22 8-729-901-00	TRANSISTOR D TRANSISTOR D TRANSISTOR D	SA1162-G			C31 C51 C52	1-163-031-11 1-163-001-11 1-163-809-11	CERAMIC CHIP (CERAMIC CHIP (CERAMIC CHIP (0.01MF 220PF	10% 5%	50V 50V 25V
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td>C53 C54</td><td>1-163-001-11 1-126-603-11</td><td>CERAMIC CHIP 2</td><td>220PF 4.7MF</td><td>10% 20%</td><td>25 V 50 V 35 V</td></res<>	ISTOR>				C53 C54	1-163-001-11 1-126-603-11	CERAMIC CHIP 2	220PF 4.7MF	10% 20%	25 V 50 V 35 V
JR8 JR10 R1	1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 680 5%	1/8W 1/8W 1/10W	1	C55 C56 C57	1-126-601-11 1-126-205-11 1-164-161-11	ELECT CHIP 2	2.2MF 47MF 0.0022MF	20% 20% 10%	50V 6.3V 50V

MAIN SW CN

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
C59 C60 C61	1-163-031-11 1-163-009-11 1-163-107-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	กกรพร	5: 10 5: 5:		50 V 50 V 50 V 50 V 50 V	R15 R16 R17 R18	1-216-071-00 1-216-073-00 1-216-065-00 1-216-081-00	METAL GLAZE	8.2K 10K 4.7K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
C63 C64 C65	1-163-109-00 1-163-009-11 1-163-251-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP				50V 50V 50V	R19 R20 R21 R22 R24	1-216-025-00 1-216-111-00 1-216-025-00 1-216-057-00 1-216-691-11	METAL GLAZE METAL GLAZE METAL GLAZE	100 390K 100 2.2K 47K	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
CNP3 ∗	1-506-906-11 1-564-517-11	NECTOR> PIN, CONNECTO PLUG, CONNECTO PLUG, CONNECTO	OR 2P				R25 R26 R27 R28 R29	1-216-661-11 1-216-061-00 1-216-022-00 1-216-022-00 1-216-017-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 3.3K 75 75 47	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D10	8-719-106-08	DIODE RD2.4M- DIODE RD6.2M-	B2				R51 R52 R53 R54 R55	1-216-053-00 1-216-053-00 1-216-025-00 1-216-089-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 1.5K 100 47K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D51	8-719-939-02 <1C>						R56 R57 R58 R59 R60	1-216-073-00 1-216-065-00 1-216-081-00 1-216-025-00 1-216-111-00	METAL GLAZE METAL GLAZE	10K 4.7K 22K 100 390K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
L11	8-759-998-71 <coii 1-406-333-11</coii 	L> COIL (OSC)					R61 R62 R64 R65 R66	1-216-025-00 1-216-057-00 1-216-691-11 1-216-661-11 1-216-061-00	METAL GLAZE METAL CHIP	100 2.2K 47K 2.7K 3.3K	5% 5% 0.50% 0.50% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
L13 L51 L52	1-412-400-31 1-406-334-11	COIL (OSC) INDUCTOR CHIP	68UH				R67 R68 R69 R71 R81	1-216-022-00 1-216-022-00 1-216-017-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	75 75 47 47K 47K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
		NSISTOR>							IABLE RESISTOR				
Q13 Q14 Q15	8-729-216-22 8-729-230-49 8-729-230-49	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1162-G C2712-YG C2712-YG				RV11 RV51 ******	1-238-989-11 1-238-989-11	RES, ADJ, MET RES, ADJ, MET	AL GLA	ZE 2.2	(******
Q53 Q54	8-729-216-22 8-729-230-49	TRANSISTOR 2S TRANSISTOR 2S	A1162-G C2712-YG				; ; ; ;	*1-643-141-11	SW BOARD				
Q55		TRANSISTOR 2S	C2/12-10				CNDO		NECTOR>	on en			
JW3 JW4 JW5	1-216-296-00 1-216-295-00 1-216-295-00 1-216-296-00 1-216-296-00		0 5 0 5 0 5	% % %	1/8W 1/10W 1/10W 1/8W 1/8W		† 1 1 1 1	*1-564-520-11 <ic <br="">-1-532-984-11</ic>	LINK>		n Ngji	- 其作法 :	
JW9 R1 R5	1-216-296-00 1-216-295-00 1-216-133-00 1-216-043-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5 3.3N 5 560 5	% % %	1/8W 1/10W 1/10W 1/10W 1/10W		S1 S2	<\$\text{SWI}\$ 1-570-913-11 1-554-061-00	SWITCH, PUSH SWITCH, SLIDE		*****	;** ***	*****
R9 R11 R12	1-216-051-00 1-216-053-00 1-216-053-00 1-216-053-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 5 1.5K 5 1.5K 5 1.5K 5	%	1/10W 1/10W 1/10W 1/10W 1/10W		i	*1-6 43 -965 - 11					
	1-216-089-00				1/10W		1	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td></td></con<>	NECTOR>				

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.



REMARK

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.
CNP5 1-506-906-11	PIN, CONNECTOR 5P		1-452-094 1-460-091
*********	**********	*******	1-544-727
*1-643-140-11	LED BOARD ********		A-1-590-501 8-913-822
< CAD	ACITOR>		V901 A.8-733-231
C101 1-163-031-11		FOU	***********
C103 1-163-031-11 C104 1-126-395-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF BLECT CHIP 22MF CERAMIC CHIP 0.1MF BLECT CHIP 22MF	50V 50V 20% 16V 25V 20% 16V	ACCE ****
	CERAMIC CHIP 0.1MF	20% 16V 25V	3-755-297 *4-034-981 *4-035-035 *4-035-040
<con< td=""><td>NECTOR></td><td></td><td>*4-380-340</td></con<>	NECTOR>		*4-380-340
CNP101*1-564-517-11	PLUG, CUNNECTOR 2P		8-953-467
<d10< td=""><td>DE></td><td></td><td></td></d10<>	DE>		
D103 8-719-992-10 D104 8-719-992-10	DIODE IR5BF-A DIODE IR5BF-A DIODE IR5BF-A DIODE IR5BF-A DIODE IR5BF-A		1-465-796 4-031-670
D107 8-719-992-10	DIODE IR5BF-A DIODE IR5BF-A DIODE IR5BF-A		i } † 1 1 1 1
<c01< td=""><td>1></td><td></td><td>•</td></c01<>	1>		•
L101 1-412-400-31			
	NSISTOR>		1
Q101 8-729-216-22 Q102 8-729-140-75 Q103 8-729-216-22 Q104 8-729-140-75 Q107 8-729-230-49	TRANSISTOR 2SA1162-G TRANSISTOR 2SD999-CLCK TRANSISTOR 2SA1162-G TRANSISTOR 2SD999-CLCK TRANSISTOR 2SC2712-YG		1 1 1 1 1 1 1 1 1 1
<res< td=""><td>ISTOR></td><td></td><td></td></res<>	ISTOR>		
JW101 1-216-295-00 R101 1-216-022-00 R102 1-216-071-00 R104 1-216-025-00 R105 1-216-057-00	METAL GLAZE 0 5% METAL GLAZE 75 5% METAL GLAZE 8.2K 5% METAL GLAZE 100 5% METAL GLAZE 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R106 1-216-003-11 R107 1-216-025-00 R108 1-216-057-00 R109 1-216-003-11	METAL GLAZE 12 5% METAL GLAZE 100 5% METAL GLAZE 2.2K 5% METAL GLAZE 12 5%	1/10W 1/10W 1/10W 1/10W	1 3 1 1 1 1 2 1 1 1
< V AR	IABLE RESISTOR>		
RV101 1-238-989-11	RES, ADJ, METAL GLAZE 2.	. 2K	:

	CELLANEOUS		•

 Δ 1-451-311-21 DEFLECTION YOKE (Y25FXA) 1-452-032-00 MAGNET, DISK; 10MM ϕ 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM \$\phi\$ 1-460-091-11 COIL DEGAUSS 1-544-727-11 SPEAKER (7.5X13CM)

\$\phi\$ 1-590-501-11 CORD, POWER (WITH NOISE FILTER) 8-913-822-90 TRANSMITTER TMR-D1003 SET

V901 \$\phi\$ 8-733-231-05 PICTURE TUBE (A59JWC61X)

ACCESSORIES AND PACKING MATERIALS

DESCRIPTION

3-755-297-11 MANUAL, INSTRUCTION *4-034-981-01 CUSHION (UPPER) (ASSY) *4-035-035-01 CUSHION (LOWER) (ASSY) *4-035-040-01 INDIVIDUAL CARTON *4-380-340-01 BAG, PROTECTION

8-953-467-91 HEADPHONE MDR-IF310/I SET

REMOTE COMMANDER

1-465-796-11 CONTROL UNIT, REMOTE (RM-816) 4-031-670-01 COVER, POCKET (FOR RM-816)

MEMO

ACCESSORY

MDR-IF310

SPECIFICATIONS

General

Modulation system Carrier frequency

Frequency modulation Right 2.8 MHz

Left 2.3 MHz

Effective range

Up to approx. 7 m

(23 ft.)

Frequency response

Distortion

18-22,000 Hz Less than 1% at

1 kHz

Headphones MDR-IF310

Power source

DC 3 V, 2 × R6 (size

AA) battery

Weight

Approx. 170 g (6.0 oz.)

incl. batteries

Design and specifications subject to change

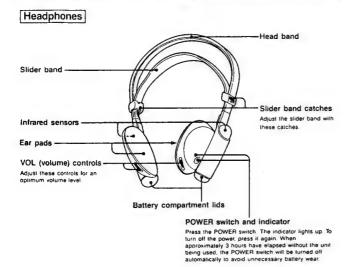
without notice.

CORDLESS STEREO HEADPHONES

SECTION 1 GENERAL

This section is extracted from instruction manual.

Parts Identification



Power Source of the Headphones

Use two R6 (size AA) batteries for the headphones. Be sure to use the same type of batteries for both right and left battery compartments.

When the batteries become weak
The POWER indicator dims, and a hissing
noise increases. In such a case, replace both batteries.

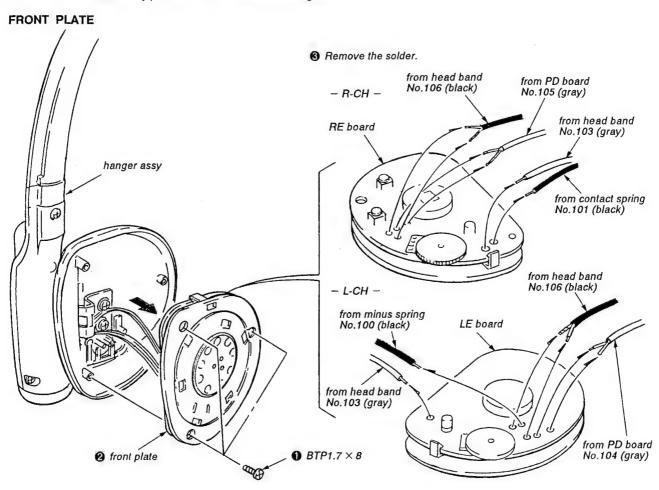
The approximate battery life for continuous operation is as follows:

Sony alkaline battery AM3(N): 120 hours Sony battery SUM-3(NS): 60 hours

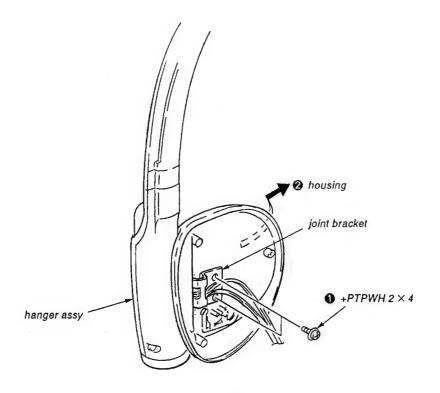
Battery Installation 1 Open both battery compartments' lids. 2 Insert the batteries with the correct polarity. 3 Close the battery compartments' lids.

SECTION 2 DISASSEMBLY

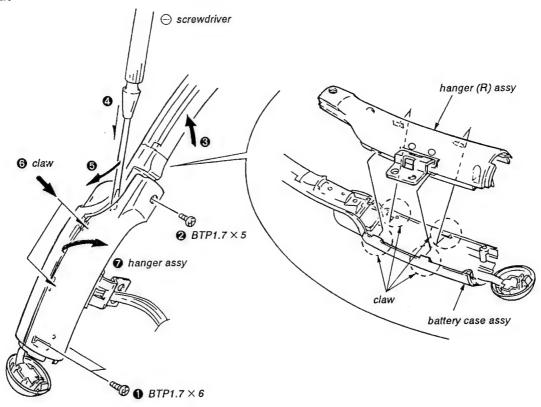
Note: Follow the disassembly procedure in the numerical order given.

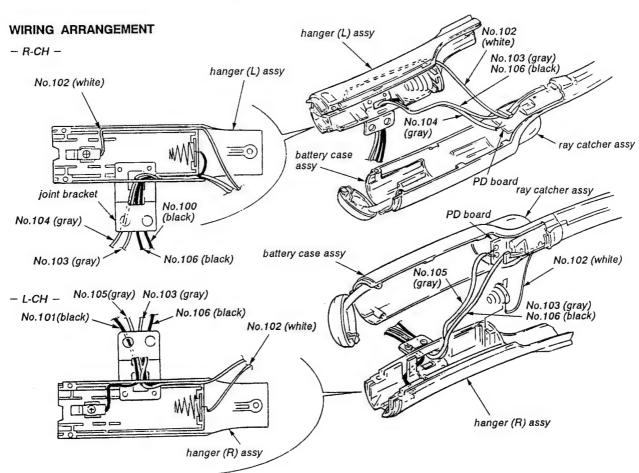






HANGER





SECTION 3 ADJUSTMENTS

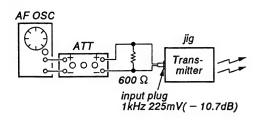
Note:

- On adjusting, use the transmitter (TMR-IF5) as a jig.
- 2. L-ch adjustment should be completed before performing R-ch

0 dB = 0.775 V

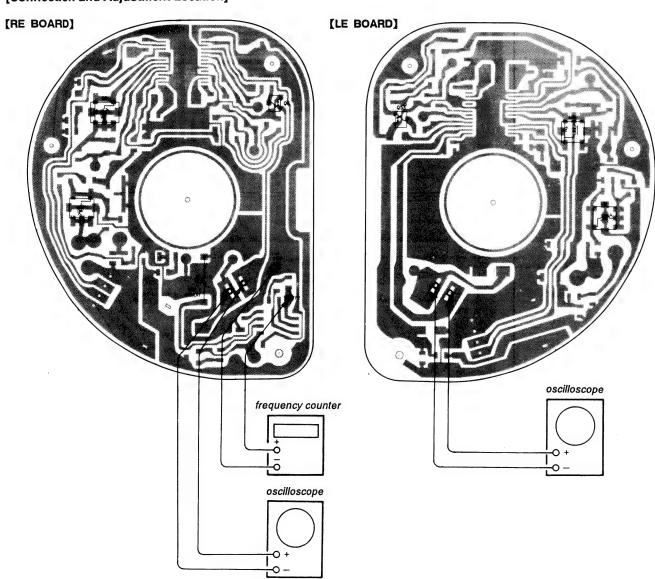
[Receiving Frequency Adjustment]

Preparation:



- 1. Feed a signal to jig (TMR-IF5) and connect a power supply.
- Volume control: Optional position.
 Short-circuit: Q3 (Q53) Base Emitter (Ground)

[Connection and Adjustment Location]



Procedure:

- 1. Connect a oscilloscope to SP1 or SP51.
- 2. Turn on the power switch on the headphones.
- 3. Adjust to make minute input level with changing the direction of the emitting position of jig so that the noise appears on the waveform.
- 4. Adjust with L5 (L-ch) or L55 (R-ch) to maximize the reading on the oscilloscope.
- 5. Adjust with L1 (L-ch) or L51 (R-ch) to maximize the reading on the oscilloscope.
- Release the short-circuit position.

 Q3 (Q53) Base Emitter (Ground)

[Timer Clock Frequency Check]

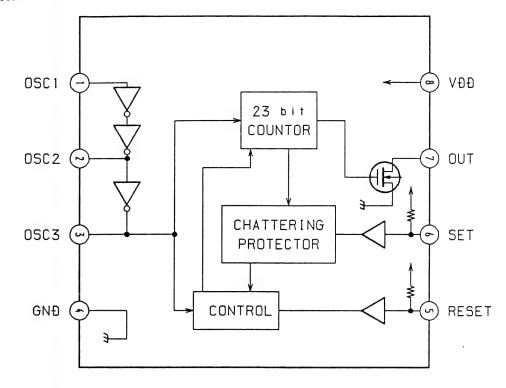
- 1. Connect a frequency counter to TP2 and TP (GND).
- 2. Check the reading on the frequency counter becomes to the checking

Checking value: 300 Hz - 390 Hz.

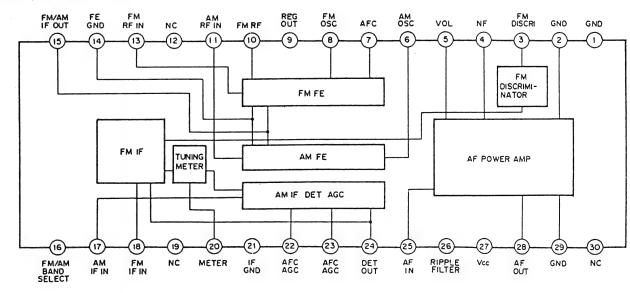
SECTION 4 DIAGRAMS

• IC Block Diagrams

IC2 BU2305F



IC21, 51 CXA1280N



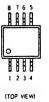
4-1. PRINTED WIRING BOARDS

• Semiconductor Location

Ref. No.	Location
D1 D2	G-3 E-2
D52	D-12
IC1	C-4
IC2 IC51	H-5 D-10
PH101	A-5, A-8
PH102	A-6, A-9
Q2	H-4
Q3 Q4	D-5 D-4
Q5 Q51	D-5 E-13
Q53	D-9
Q54 Q55	C-9 D-9

• Semiconductor Lead Layout





CXA1280N

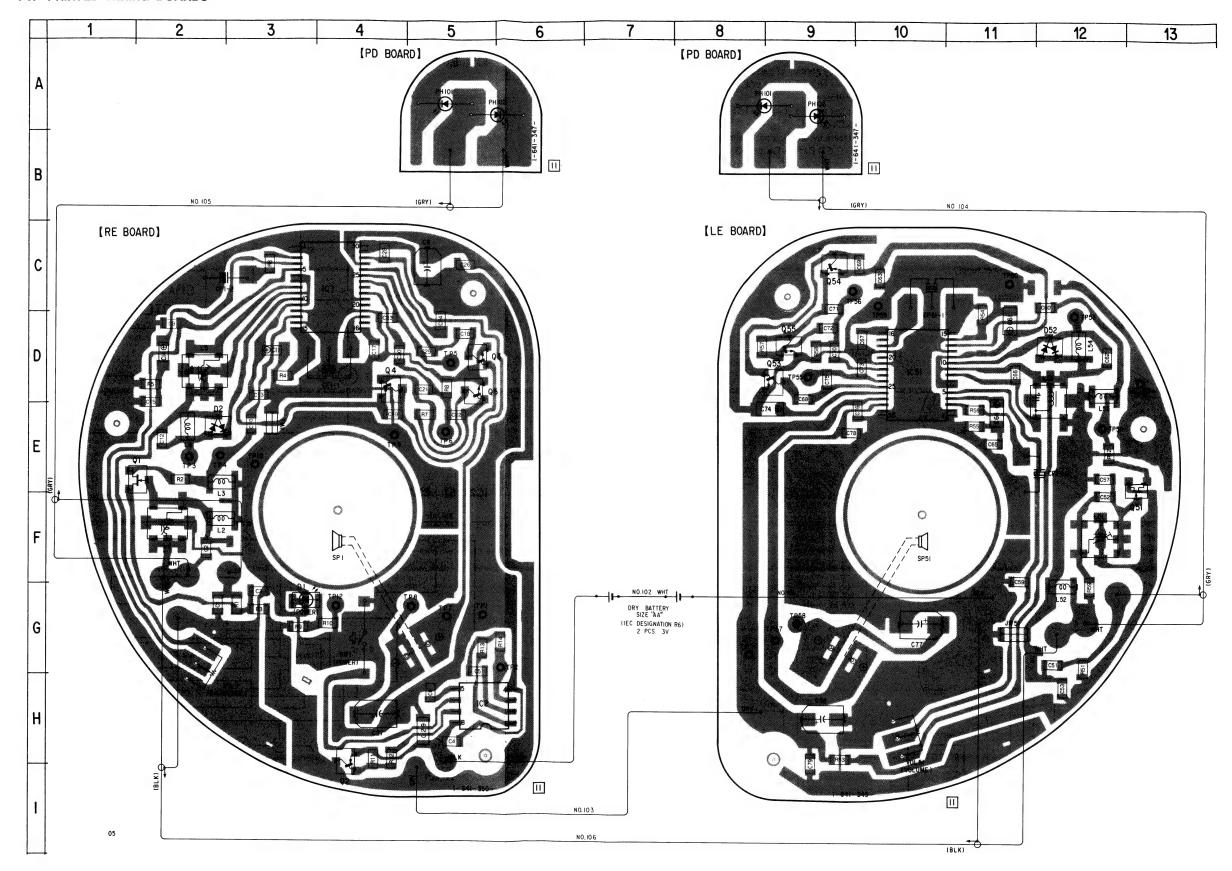


PP601-1



CL-150R-CD



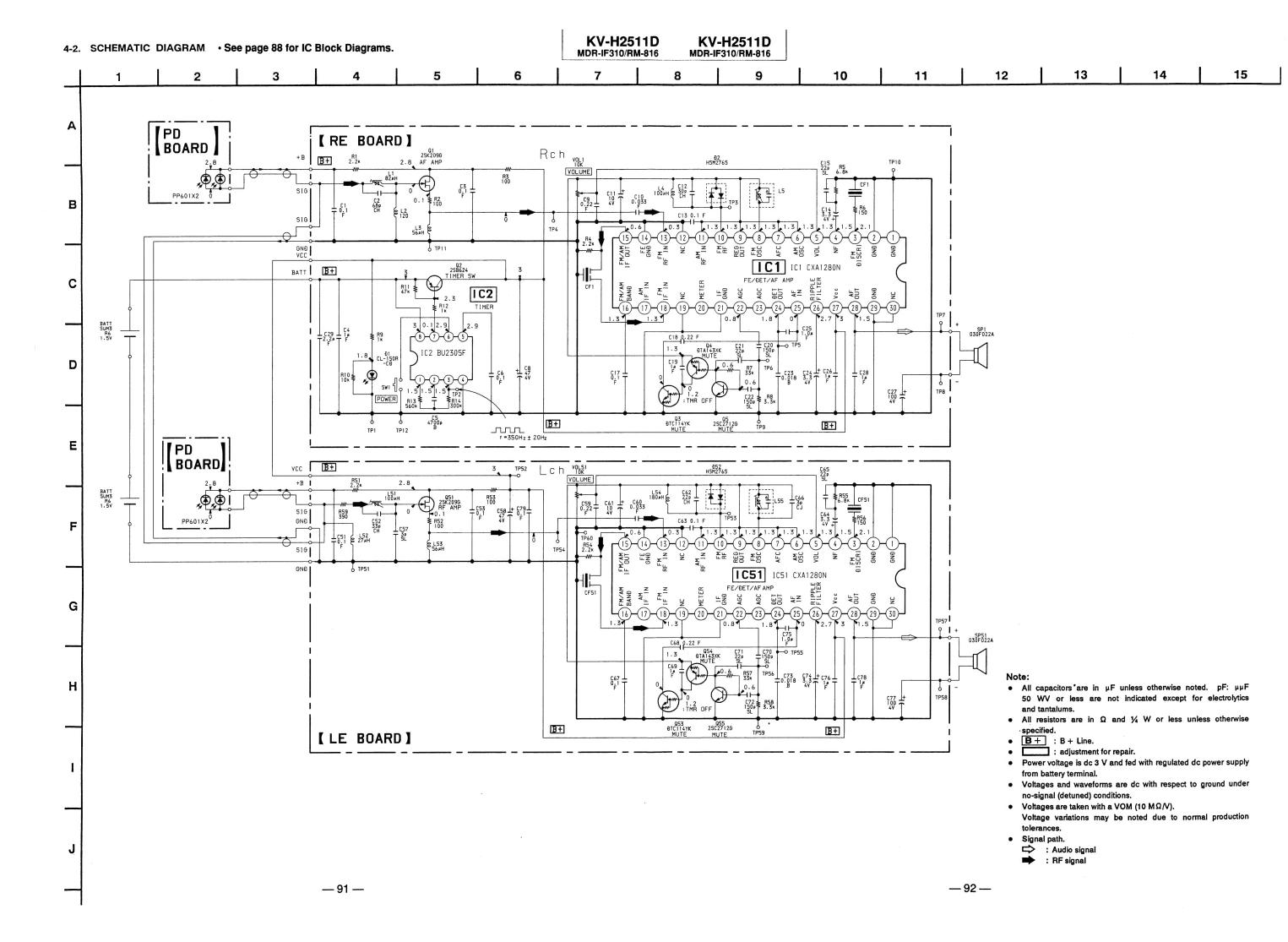


Note:

• o---: parts extracted from the component side.

• : Through hole.

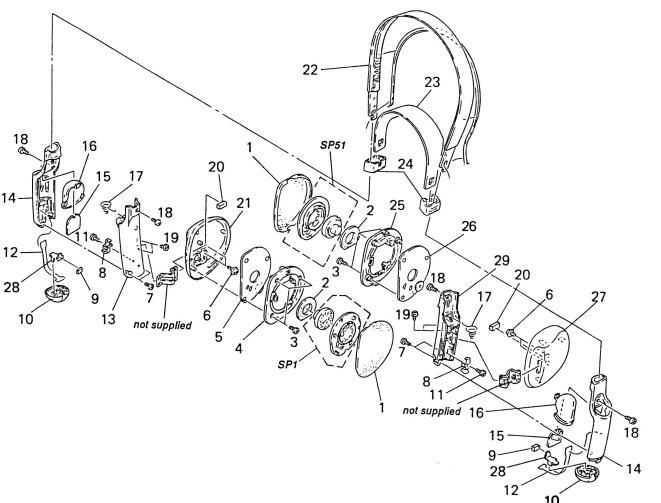
Pattern on the side which is seen.



SECTION 5 EXPLODED VIEW

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) ... (RED) Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering
- The mechanical parts with no reference number in the exploded views are not



						10	
Ref. No.	Part No.	<u>Description</u>	Remark	Ref. No.	Part No.	Description	Remark
1 * 2 3 * 4 * 5 6 7 8 9 10 11 12 13 14	4-947-813-01 A-4542-062-A 3-313-392-01 3-318-203-11 4-947-795-01 9-911-838-XX 4-947-800-01 7-627-552-07 4-947-789-01 4-947-810-01	DAMPER SCREW (B1.7X8), TAPPING PLATE (R), FRONT RE BOARD, COMPLETE SCREW (2X4), + PTPWH SCREW (B1.7X6), TAPPING SPRING, CONTACT CUSHION LID, BATTERY CASE SCREW (M1.7X2.5), TAPPING SHEET		16 17 18 19 20 21 * 22 * 23 24 * 25 * 26 27 28 29	4-947-794-01 3-318-203-11 7-627-852-28 4-947-796-01 X-4941-959-1 4-947-809-01 4-947-801-01 4-947-812-01 A-4542-061-A 4-947-804-01	HOUSING (R) ASSY BAND, HEAD EAND, SLIDER KNOB, SLIDER PLATE (L), FRONT LE BOARD, COMPLETE HOUSING (L) TERMINAL, PLUS	
* 15	1-641-347-11	PC BOARD, PD		SP1 SP51	1-505-117-11	DRIVER UNIT (03F022A) DRIVER UNIT (03F022A)	



SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original
- RESISTORS All resistors are in ohms.
 METAL: Metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS In each case, u: μ , for example: uA...: μ A..., uPA...; μ PA..., uPB...: μ PB..., uPC...: μ PC..., uPD...: μ PD...

• CAPACITORS uF: μF

• COILS uH: μH

When including parts by reference number, please include the board

Ref. No.	Part No.	Description		Ī	Remark	Ref. No.	Part No.	Description			Remark
*	A-4542-061-A	LE BOARD, COMPL	ETE					< JAMPER >			
		*********	***								
	1-578-717-71	FILTER, CRYSTAL				JW51	1-216-296-00	METAL CHIP	0	5%	1/8W
	- 0.0 .11	•						< COIL >			
		< CAPACITOR >									
CEI	1 102 020 00	CEDANIC CUID	0. 1P		057	L51	1-424-333-11		05 11		
C51 C52		CERAMIC CHIP	0. 1uF	- 0/	25V	L52		INDUCTOR CHIP	27uH		
		CERAMIC CHIP	33PF	5%	50V	L53		INDUCTOR CHIP	56uH		
C53		CERAMIC CHIP	0. 1uF		25V	L54		INDUCTOR CHIP	180uH		
C57		CERAMIC CHIP	3PF	0.00/	50V	L55	1-406-436-11	COIL (OSC)			
C58	1-126-607-11	ELECT CHIP	47uF	20%	4V			4 mp 11/07 0mop 3			
C59	1_164_222_11	CERAMIC CHIP	0. 22uF		25V			< TRANSISTOR >			
C60		CERAMIC CHIP	0. 22ur 0. 033uF		50Y	Q51	8-720-220-03	TRANSISTOR 2SK2	00_C		
C61		TANTALUM CHIP	10uF	20%	47	Q53		TRANSISTOR DTC1			
C62		CERAMIC CHIP	22PF	5%	50Y	Q54		TRANSISTOR DTAI			
C63		CERAMIC CHIP	0. 1uF	0.0	25V	Q55		TRANSISTOR 2SC2			
000	1 100 000 00	ODMINIO OIIII	o. rui		201	400	0 123 200 43	1101101011 2002	112 10		
C64	1-135-180-21	TANTALUM CHIP	3. 3uF	20%	6. 3V			< RESISTOR >			
C65	1-163-101-00	CERAMIC CHIP	22PF	5%	50V						
C66	1-163-220-11	CERAMIC CHIP	3PF	0.25PF	50V	R51	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
C67	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R52	1-216-025-00	METAL CHIP	100	5%	1/10W
C68	1-164-222-11	CERAMIC CHIP	0. 22uF		25V	R53	1-216-025-00	METAL CHIP	100	5%	1/10W
						R54	1-216-057-00	METAL CHIP	2. 2K		1/10₩
C69	1-164-346-11	CERAMIC CHIP	luF		16V	R55	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
C70	1-163-121-00	CERAMIC CHIP	150PF	5%	50V						
C71	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	R56	1-216-029-00	METAL CHIP	150	5%	1/10W
C72	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	R57	1-216-085-00	METAL CHIP	33K	5%	1/10W
C73	1-163-024-00	CERAMIC CHIP	0. 018uF	10%	50V	R58	1-216-061-00	METAL CHIP	3. 3K		1/10W
						R59	1-216-039-00	METAL CHIP	390	5%	1/10W
C74		TANTALUM CHIP	3. 3uF	20%	6. 3V						
C75		CERAMIC CHIP	1uF		16V			< VARIABLE RESI	STOR >		
C76		CERAMIC CHIP	luF		16V					()	
C77	1-126-209-11		100uF	20%	4V	VOL51	1-238-906-11	RES, VAR, CARBO	N 10K	(VOL)	
C78		CERAMIC CHIP	luF		16V						
C79	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	******	*********	**********	*****	*****	********
		< DIODE >				*	1-641-347-11	PD BOARD			

D52	8-719-946-33	DIODE HSM276S									
		/ IC >						< PHOTO DIODE >			
		< IC >				DUIDI	0 710 075 00	DUOTO DIODE DEC	01 1		
IC51	8-759-605-59	IC CYALOOM						PHOTO DIODE PP6			
1031	0-129-002-29	IC CAMIZOUN				ru102	0-112-212-50	PHOTO DIODE PP6	01-1		
					1	******	*******	******	*****	*****	******



Ref No	Part No.	Description			Damaula	D. C. N.	D. 4 N					
net. no.					Remark	Kei. No.	Part No.	Description			į	Remark
*	A-4542-062-A	RE BOARD, COMP **********		L5	1-406-436-11							
	1-578-717-71	FILTER, CRYSTA				< TRANSISTOR >						
		< CAPACITOR >				Q1 Q2	Q1 8-729-220-93 TRANSISTOR 2SK209-G Q2 8-729-141-48 TRANSISTOR 2SB624-BV345					
C1	1_162_020_00	CERAMIC CHIP	0.1		0511	Q3	8-729-900-52	TRANSISTOR DTC	114YK	,10		
C2	1-163-113-00	CERAMIC CHIP	0. 1uF 68PF	5%	25 V 50 V	Q4 Q5		TRANSISTOR DTA		ì		
C3 C4		CERAMIC CHIP	0. luF luF		25V 16V							
C5		CERAMIC CHIP	0. 0047uF	5%	50V			< RESISTOR >				
C6	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R1 R2	1-216-057-00 1-216-025-00		2. 2K 100	5% 5%	1/10W 1/10W	
C8	1-126-607-11	ELECT CHIP	47uF	20%	4V	R3	1-216-025-00		100	5%	1/10W	
C9 C10		CERAMIC CHIP	0. 22uF		25V	R4	1-216-057-00		2. 2K	5%	1/10W	
C11		TANTALUM CHIP	0. 033uF 10uF	20%	50V 4V	R5	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W	
610	1 100 104 00	anniura auro				R6	1-216-029-00		150	5%	1/10W	
C12 C13		CERAMIC CHIP	30PF 0. 1uF	5%	50V 25V	R7 R8	1-216-085-00		33K	5%	1/10W	
C14		TANTALUM CHIP	3. 3uF	20%	6. 3V	R9	1-216-061-00 1-216-049-00		3. 3K 1K	5% 5%	1/10W 1/10W	
C15		CERAMIC CHIP	22PF	5%	50V	R10	1-216-073-00		10K	5%	1/10\	
C17	1-163-038-00	CERAMIC CHIP	0. 1uF		25 V							
C18	1-164-222-11	CERAMIC CHIP	0. 22uF		25V	R11 R12	1-216-089-00 1-216-049-00		47K 1K	5% 5%	1/10\ 1/10\	
C19		CERAMIC CHIP	luF		16V	R13	1-216-115-00		560K	5%	1/10₩	
C20		CERAMIC CHIP	150PF	5%	50V	R14	1-216-108-00		300K	5%	1/10\	
C21 C22		CERAMIC CHIP	22PF	5%	50V							
C22	1-103-121-00	CERAMIC CHIP	150PF	5%	50V			< SWITCH >				
C23		CERAMIC CHIP	0.018uF	10%	50V	SW1	1-572-473-11	SWITCH, TACTIL	(POWER))		
C24 C25	1-135-180-21	TANTALUM CHIP	3. 3uF 1uF	20%	6. 3V 16V	< VARIABLE RESISTOR >						
C26	1-164-346-11					(VARIABLE RESISIOR >						
C27	1-126-209-11		100uF	20%	47	VOL1	1-238-906-11	RES, VAR, CARBO	ON 10K	(VOL)		
C28 C29	1-164-346-11 1-164-337-11		1uF 2. 2uF		16V 16V	******	***************************************					
		< DIODE >										
D1 D2		DIODE CL-150R-C DIODE HSM276S	D									
		< IC >										
IC1 IC2	8-759-605-59 8-759-044-56											
		< JAMPER >										
JW1	1-216-296-00	METAL CHIP	0 5%	1/8₩								
		< COIL >										
LI	1-424-334-11		100 "									
L2 L3	1-410-655-31 1-410-390-11		120uH 56uH									
L4	1-410-393-11		100uH									
					1							

Sony Corporation TV Group

English 92FH0931-1 Printed in Japan © 1992.6